FINAL

SITE CHARACTERIZATION REPORT VOLUME III (Appendix G)

147TH FIGHTER INTERCEPTOR GROUP TEXAS AIR NATIONAL GUARD ELLINGTON FIELD HOUSTON, TEXAS

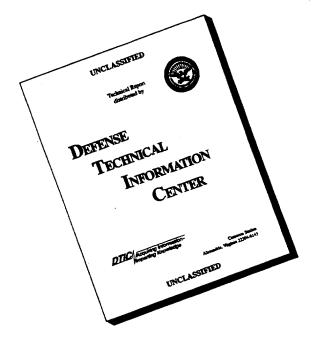
MAY 1995



HAZWRAP SUPPORT CONTRACTOR OFFICE

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6. AUTHOR(S) N/A			
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13. ABSTRACT (Maximum 200 words) Site Characterization Report, V. A Site Characterization was per the Base Petroleum, Oils, and L below the Texas Natural Resour	formed at one site at th ubricants Storage Area	. All contamination i	ceptor Group. The site was dentified at the site was
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18. SECURITY CLASSIFICATION OF THIS MAGELassified

NSN 7540-01-280-5500

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19. SECURITY CLASSIFICATION OF LABSERACTION

20. LIMITATION OF ABSTRACT None

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FINAL

INSTALLATION RESTORATION PROGRAM SITE CHARACTERIZATION REPORT

VOLUME III APPENDIX G

147TH FIGHTER INTERCEPTOR GROUP TEXAS AIR NATIONAL GUARD ELLINGTON FIELD HOUSTON, TEXAS

PREPARED BY
HALLIBURTON NUS CORPORATION
PROJECT NUMBER 1K94

MAY 1995

Appendix G Laboratory Analytical Reports

TABLE G-1 FINAL

ANALYTICAL RESULTS FOR SOIL SAMPLES TPH AND BTEX POL Storage Area

Ellington Field (ANGRC)

				igion riela (A	11101107			
Sample ID	Soil	Sample	TPH	Benzene	Toluene	Ethylbenzene	Xylene	Total
	Boring	Depth	(mg/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	BTEX
		- 	. 5. 5.	. 0				(ug/kg)
		I	<u> </u>	I		l		
02-SB15-A-A	SB-15	0-2	35	NA	NA	NA	NA	NA
02-SB15-A	SB-15	12-14	<27	NA	NA	NA	NA	NA
1		20-22	49	NA NA	NA	NA NA	NA	NA
02-SB15-C-A	SB-15		<24	NA NA	NA NA	NA NA	NA NA	NA NA
02-FD15-C-A	SB-15	20-22	\ <u>\ \ 24</u>	INA	INA	IVA	INA	NA I
00.004.0.4.4	00.40	4.0	10	- E I	221	221	21J	91
02-SB16-A-A	SB-16	4-6	40	<5J	33J	32J		
02-SB16-B-A	SB-16	8-10	41	(a)	(a)	(a)	(a)	(a)
02-SB16-C-A	SB-16	20-22	37	<5	< 5	< 5	<5	<20
		T			T			
02-SB17-A-A	SB-17	2-4	54	<5	< 5	<5	< 5	<20
02-SB17-B-A	SB-17	8-10	42	<5	< 5	<5	< 5	<20
02-SB17-C-A	SB-17	22-24	38	<5	< 5	< 5	<5	<20
		-		*	•		·	· · · · · · · · · · · · · · · · · · ·
02-SB18-A-A	SB-18	0-2	50	<5	<5	<5	< 5	<20
02-SB18-B-A	SB-18	10-12	38	(a)	(a)	(a)	(a)	(a)
02-SB18-C-A	SB-18	18-20	37	<5	<5	<5	<5	<20
02-SB19-A-A	SB-19	2-4	<27	(a)	(a)	(a)	(a)	(a)
02-SB19-B-A	SB-19	4-6	<27	< 5	<5	<5	<5	<20
02-SB19-C-A	SB-19	20-22	<25	<5	<5	<5	<5	<20
					•		t	
02-SB20-A-A	SB-20	2-4	39	<5	<5	7.9J	<5	22.9
02-SB20-B-A	SB-20	8-10	<27	(a)	(a)	(a)	(a)	(a)
02-SB20-C-A	SB-20	20-22	36	<5	<5	<5	<5	<20
02-SB20-C-A	SB-21	2-4	<27	<5	<5J	8.8J	<5	23.8
02-SB21-B-A	SB-21	4-6	49	<5	<5	<5	<5	<20
02-5B21-B-A	SB-21	4-6	<28	<5	<5	<5	<5	<20
			49	<5 <5	<5	<5	<5	<20
02-SB21-C-A	SB-21	20-22	49		\ \ 5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		\ 20
00.0000.4.4	00.00	1.0	107	1 45				1 420
02-SB22-A-A	SB-22	4-6	<27	<5	<5	<5	<5	<20
02-SB22-B-A	SB-22	6-8	<28	<5	<5	<5	<5	<20
02-SB22-C-A	SB-22	22-24	38	<5	< 5	< 5	<5	<20
00.0000	00.00		-00	T	T	1		100
02-SB23-A-A	SB-23	0-2	<22	<5	< 5	<5	<5	<20
02-SB23-B-A	SB-23	6-8	<28	< 5	< 5	16J	< 5	31
02-SB23-C-A	SB-23	20-22	<24	<5	< 5	<5	< 5	<20
02-FD23-C-A	SB-23	20-22	<24	<5	< 5	< 5	<5	<20
		·	T		_		Υ	
02-SB24-A-A	SB-24	1-3	<29	<5	<5	<5	<5	<20
02-SB24-B-A	SB-24	11-13	<25	< 5	< 5	<5	<5	<20
02-SB24-C-A	SB-24	17-19	<25	<5	< 5	<5	<5	<20
02-SB25-A-A	SB-25	1-3	<28	<5	<5	<5	<5	<20
02-SB25-B-A	SB-25	5-7	<28	<5	90J	700J	67J	862
02-SB25-C-A	SB-25	17-19	<24	<5	< 5	<5	<5	<20
11 02 0020 C A	1 00 20	1 ., 10	, '	, ,	, ,	, ,,	1	,

TABLE G-1 FINAL

ANALYTICAL RESULTS FOR SOIL SAMPLES TPH AND BTEX POL Storage Area

Ellington Field (ANGRC)

02-SB26-A-A	SB-26	0-2	43	<5	<5	<5	<5	<20
02-SB26-B-A	SB-26	6-8	<27	(a)	(a)	(a)	(a)	(a)
02-SB26-C-A	SB-26	18-20	<25	180J	190J	960J	57J	1387
02-FD26-C-A	SB-26	18-20	<25	<5J	<5J	11J	<5J	26
02-SB27-A-A	SB-27	0-2	<21	<5	<5	<5	<5	<20
02-SB27-B-A	SB-27	14-16	<26	3000	8000	2500	9900	23400
02-SB27-C-A	SB-27	22-24	<25	< 5	<5	<5	<5	<20
<u> </u>							· · · · · · · · · · · · · · · · · · ·	
02-SB28-A-A	SB-28	1-3	<26	<5	7.3J	<5	<5	22.3
02-SB28-B-A	SB-28	7-9	<28	<5	7.6J	< 5	<5	22.6
02-SB28-C-A	SB-28	20-22	<24	<5	<5	<5	<5	<20
02 0520 0 71	00 20				L			
02-SB29-A-A	SB-29	1-3	<28	12J	<5	25J	<5	< 47
02-SB29-B-A	SB-29	5-7	<26	<5	<5	<5	<5	<20
02-SB29-C-A	SB-29	17-19	<25	<5	<5	<5	< 5	<20
02 0020 0 K	0525		1				1	
02-SB30-A-A	SB-30	0-2	<27	<5	<5	<5	<5	<20
02-SB30-B-A	SB-30	8-10	<24	< 5	<5	<5	<5	<20
02-SB30-C-A	SB-30	16-18	<25	<5	<5	<5	<5	<20
02-0800-C-A	00 00	10 10	\20	- 10		1		120
02-SB31-A-A	SB-31	0-2	<26	<5	<5	<5	<5	<20
02-SB31-B-A	SB-31	10-12	<25	24J	85J	250J	150J	509
02-SB31-C-A	SB-31	16-18	<25	<5	<5	<5	< 5	<20
02-FD31-C-A	SB-31	16-18	<25	<5	< 5	<5	<5	<20
02.00.07.			1		L		1	
02-SB32-A-A	SB-32	0-2	<26	<5	<5	<5	<5	<20
02-SB32-B-A	SB-32	8-10	<27	<5	< 5	<5	<5	<20
02-SB32-C-A	SB-32	16-18	<26	<5	< 5	<5	<5	<20
02-FD32-C-A	SB-32	16-18	<25	<5	< 5	<5	<5	<20
02-SB33-A-A	SB-33	0-2	<25	<5	<5	<5	<5	<20
02-SB33-B-A	SB-33	12-14	<26	<5	<5	<5	<5	<20
02-SB33-C-A	SB-33	16-18	<24	<5	<5	<5	<5	<20
02 0200 0 //					<u> </u>		1	
02-SB34-A-A	SB-34	0-2	38J	<5	<5	<5	<5	<20
02-SB34-B-A	SB-34	14-16	<24J	<5	<5	<5	<5	<20
02-SB34-C-A	SB-34	16-18	<25J	<5	<5	<5	<5	<20
02-FD34-C-A	SB-34	16-18	<26J	<5	<5	<5	<5	<20
<u> </u>	-			<u> </u>	•	•	•	
02-SB35-A-A	SB-35	0-2	<24J	<5	<5	<5	<5	<20
02-SB35-B-A	SB-35	16-18	25J	<5	< 5	<5	<5	<20
			<u> </u>	lu v uuu		-	•	
02-MW11-A-A	MW-11	0-2	24	<5	<5	<5	<5	<20
02-MW11-B-A	MW-11	14-16	<25	<5	<5	<5	<5	<20
02-MW-11-C-A	MW-11	18-20	<24	<5	<5	<5	<5	<20
						•		•

⁽a) - refer to Table G-2 for TCL volatile results

1674-001 G1-2

J = lab qualifier indicating estimated value

If field is left blank, the qualifier is A - Accept all data

ANALYTICAL RESULTS FOR SOIL SAMPLES TCL VOLATILES POL Storage Area

Ellington Field (ANGRC)

Parameter	Sample ID	02SB16BA	02SB18BA	02SB19AA	02SB20BA	02B26BA
i arameter	Depth	8-10	10-12	8-10	4-6	6-8
		1 0-10	10-12	0-10	4-0	0-0
Chloromethane	ug/kg	<14	<13	<14	<13	<13
Bromomethane	ug/kg	<14	<13	<14	<13	<13
Vinyl Chloride	ug/kg	<14	<13	<14	<13	<13
Chloroethane	ug/kg	<14	<13	<14	<13	<13
Methylene chloride	ug/kg	<14	<13	<14	<13	<13
Acetone	ug/kg	< 270	<13J	<14J	<13J	<540
Carbon disulfide	ug/kg	<14	<13	<14	<13	<13
1,1-dichloroethene	ug/kg	<14	<13	<14	<13	<13
1,1-dichloroethane	ug/kg	<14	<13	<14	<13	<13
1,2-dichloroethene (total)	ug/kg	<14	<13	<14	<13	<13
Chloroform	ug/kg	<14	<13	<14	<13	<13
1,2-dichloroethane	ug/kg	<14	<13	<14	<13	<13
2-butanone	ug/kg	<14	<13	<14	<13	47J
1.1.1-trichlorethane	ug/kg	<14	<13	<14	<13	<13
Carbon Tetrachloride	ug/kg	<14	<13	<14	<13	<13
Bromodichloromethane	ug/kg	<14	<13	<14	<13	<13
1,2-dichloropropane	ug/kg	<14	<13	<14	<13	<13
cis-1,3-dichloropropene	ug/kg	<14	<13	<14	<13	<13
Trichloroethene	ug/kg	<14	<13	<14	<13	<13
Dibromochloromethane	ug/kg	<14	<13	<14	<13	<13
1,1,2-trichloroethane	ug/kg	<14	<13	<14	<13	<13
Benzene	ug/kg	<14	<13	<14	<13	<13
trans-1,3-dichloropropene	ug/kg	<14	<13	<14	<13	<13
Bromoform	ug/kg	<14	<13	<14	<13	<13
4-methyl-2-pentonone	ug/kg	<14	<13	<14	<13	<13
2-hexanone	ug/kg	<14	<13	<14	<13	<13
Tetrachloroethene	ug/kg	<14	<13	<14	<13	<13
1,1,2,2-Tetrachloroehtane	ug/kg	<14	<13	<14	<13	<13
Toluene	ug/kg	<14	<13	<14	<13	2J
Chlorobenzene	ug/kg	<14	<13	<14	<13	<13
Ethylbenzene	ug/kg	<14	<13	<14	<13	170
Styrene	ug/kg	<14	<13	<14	<13	<13
Xylene (total)	ug/kg	<14	<13	<14	<13	43
TOTAL BTEX	ug/kg	<56	<52	< 56	<52	228

J = lab qualifier indicating estimated value If field is left blank, lab qualifier is A - Accept all data

1674-002

TABLE G-3 FINAL

ANALYTICAL RESULTS FOR SOIL SAMPLES TCL SEMIVOLATILES POL Storage Area

Ellington Field (ANGRC)

Persone			Ellington Field	(Altuito)			
Phenol	Parameter	Sample ID	02SB16BA	02SB18BA	02SB19AA	02SB20BA	02B26BA
bis+12-Chloroethyl Ether		Depth	8-10	10-12	2-4	4-6	6-8
2-Chilorophenol ug/kg < 450	Phenol	ug/kg	<450	<420	<450	<440J	<450
1,3-Dichlorobenzene ug/kg <450	bis-(2-Chloroethyl)Ether	ug/kg	<450	<420	<450	<440	<450
1,4-Dichlorobenzene ug/kg < 450	2-Chlorophenol	ug/kg	<450	<420	<450	<440J	<450
1,2-Dichlorobenzene ug/kg < 450	1,3-Dichlorobenzene	ug/kg	<450	<420	<450	<440	<450
2-Methylphenol	1,4-Dichlorobenzene	ug/kg	<450	<420	<450	<440J	<450
2,2*-oxybis(1-Chloropropane) ug/kg <450	1,2-Dichlorobenzene	ug/kg	<450	<420	<450	<440	<450
4-Methylphenol ug/kg < 450 < 420 < 450 < 440 < 450 N-Nitro-Di-n-Proylamine ug/kg < 450	2-Methylphenol	ug/kg	<450	<420	<450	<440	<450
N-Nitro-Di-n-Proylamine	2,2'-oxybis(1-Chloropropane)	ug/kg	<450	<420	<450	<440	<450
Hexachloroethane	4-Methylphenol	ug/kg	<450	<420	<450	<440	<450
Nitrobenzene	N-Nitro-Di-n-Proylamine	ug/kg	<450	<420	<450	<440J	<450
Iosphorone		ug/kg	<450	<420	<450	<440	<450
Iosphorone	Nitrobenzene	ug/kg	<450	<420	<450	<440	<450
2,4-Dimethylphenol ug/kg <450	losphorone		<450	<420	<450	<440	<450
2,4-Dimethylphenol ug/kg <450	2-Nitrophenol	ug/kg	<450	<420	<450	<440	<450
2,4-Dichlorophenol ug/kg <450	2,4-Dimethylphenol		<450	<420	<450	<440	<450
1,2,4-Trichlorobenzene ug/kg <450	bis(2-Chloroethoxy)Methane	ug/kg	<450	<420	<450	<440	<450
1,2,4-Trichlorobenzene ug/kg <450	2,4-Dichlorophenol	ug/kg	<450	<420	<450	<440	<450
4-Chloroaniline ug/kg <450	1,2,4-Trichlorobenzene		<450	<420	<450	<440J	<450
4-Chloroaniline ug/kg < 450 < 420 < 450 < 440 < 450 Hexachlorobutadiene ug/kg < 450	Napthalene	ug/kg	<450	<420	<450	<440	<450
4-Chloro-3-Methylphenol ug/kg <450	4-Chloroaniline		<450	<420	<450	<440	<450
2-Methylnapthalene ug/kg <450	Hexachlorobutadiene	ug/kg	<450	<420	<450	<440	<450
Hexachlorocyclopentadiene	4-Chloro-3-Methylphenol	ug/kg	<450	<420	<450	<440J	<450
2,4,6-Trichlorophenol ug/kg <450	2-Methylnapthalene	ug/kg	<450	<420	<450	<440	<450
2,4,5-Trichlorophenol ug/kg <2200	Hexachlorocyclopentadiene	ug/kg	<450	<420	<450	<440	<450
2-Chloronapthalene ug/kg <450	2,4,6-Trichlorophenol	ug/kg	<450	<420	<450	<440	<450
2-Nitroaniline ug/kg <2200 <2000 <2200 <2100 <2200 Dimethyl Phthalate ug/kg <450	2,4,5-Trichlorophenol	ug/kg	<2200	<2000	<2200	<2100	<2200
Dimethyl Phthalate	2-Chloronapthalene	ug/kg	<450	<420	<450	<440	<450
Acenaphthylene ug/kg < 450 < 420 < 450 < 440 < 450 2,6-Dinitrotoluene ug/kg < 450	2-Nitroaniline	ug/kg	<2200	<2000	<2200	<2100	<2200
2,6-Dinitrotoluene ug/kg <450	Dimethyl Phthalate	ug/kg	<450	<420	<450	<440	<450
2,6-Dinitrotoluene ug/kg <450							
3-Nitroaniline ug/kg <2200 <2000 <2200 <2100 <2200 Acenaphthene ug/kg <450	Acenaphthylene	ug/kg	<450	<420	<450	<440	<450
Acenaphthene ug/kg < 450 < 420 < 450 < 440J < 450 2,4-Dinitrophenol ug/kg < 2200	2,6-Dinitrotoluene	ug/kg	<450	<420	<450		<450
2,4-Dinitrophenol ug/kg <2200 <2000 <2200 <2200 4-Nitrophenol ug/kg <2200	3-Nitroaniline	ug/kg	<2200	<2000	<2200	<2100	<2200
4-Nitrophenol ug/kg <2200 <2000 <2200 <2100J <2200 Dibenzofuran ug/kg <450	Acenaphthene	ug/kg		<420	<450	<440J	<450
Dibenzofuran ug/kg <450 <440 <450 2,4-Dinitrotoluene ug/kg <450	2,4-Dinitrophenol	ug/kg	<2200	<2000	<2200	<2100	<2200
2,4-Dinitrotoluene ug/kg <450	4-Nitrophenol	ug/kg	<2200	<2000	<2200	<2100J	<2200
Diethylphthalate ug/kg <450 <440 <450 4-Chlorophenyl-phenylether ug/kg <450	Dibenzofuran	ug/kg	<450	<420	<450	<440	<450
4-Chlorophenyl-phenylether ug/kg <450	2,4-Dinitrotoluene	ug/kg	<450	<420	<450	<440J	<450
Flourene ug/kg <450 <420 <450 <440 <450 4-Nitroaniline ug/kg <2200	Diethylphthalate	ug/kg	<450	<420	<450	<440	<450
4-Nitroaniline ug/kg <2200 <2000 <2200 <2100 <2200 4,6-Dinitro-2-Methylphenol ug/kg <2200	4-Chlorophenyl-phenylether	ug/kg	<450		<450	< 440	<450
4,6-Dinitro-2-Methylphenol ug/kg <2200	Flourene	ug/kg	<450	<420	<450	<440	<450
N-Nitrosodiphenylamine ug/kg <450 <420 <450 <440 <450 4-Bromophenyl-phenylether ug/kg <450	4-Nitroaniline	ug/kg	<2200	<2000	<2200	<2100	<2200
4-Bromophenyl-phenylether ug/kg <450 <420 <450 <440 <450 Hexachlorobenzene ug/kg <450	4,6-Dinitro-2-Methylphenol	ug/kg	<2200	<2000	<2200	<2100	<2200
Hexachlorobenzene ug/kg <450 <420 <450 <440 <450	N-Nitrosodiphenylamine	ug/kg	<450	<420	<450	<440	<450
Hexachlorobenzene ug/kg <450 <420 <450 <440 <450	4-Bromophenyl-phenylether	ug/kg	<450	<420	<450	<440	<450
	Hexachlorobenzene		<450	<420	<450	<440	<450
	Pentachlorphenol	ug/kg	<2200	<2000	<2200	<2100J	<2200

1674-003 G3-1

TABLE G-3

ANALYTICAL RESULTS FOR SOIL SAMPLES TCL SEMIVOLATILES POL Storage Area

Ellington Field (ANGRC)

Phenanthrene	ug/kg	<450	<420	<450	<440	<450
Anthracene	ug/kg	<450	<420	<450	<440	<450
Carbazole	ug/kg	<450	<420	<450	<440	<450
Di-n-Butylphthalate	ug/kg	<450	<420	<450	<440	<450
Fluoranthene	ug/kg	<450	<420	<450	<440	<450
Pyrene	ug/kg	<450	<420	<450	<440J	<450
Butylbenzylphthalate	ug/kg	<450	<420	<450	<440	<450
3,3'-Dichlorobenzadine	ug/kg	<900	<840	<900	<880	<900
Benzo(a) Anthracene	ug/kg	<450	<420	<450	<440	<450
Chrysene	ug/kg	<450	<420	<450	<440	<450
bis(2-Ethylhexyl)Phthalate	ug/kg	<450	<420	<450	<440	<450
Di-n-Octyl Phthalate	ug/kg	<450	<420	<450	<440	<450
Benzo(b) Fluoranthene	ug/kg	<450	<420	<450	<440	<450
Benzo(k)Fluoranthene	ug/kg	<450	<420	<450	<440	<450
Benzo(a)pyrene	ug/kg	<450	<420	<450	<440	<450
Indeno(1,2,3-cd)Pyrene	ug/kg	<450	<420	<450	<440	<450
Dibenz(a,h)Anthracene	ug/kg	<450	<420	<450	<440	<450

<450

<420

<450

<440

<450

ug/kg

Benzo(g,h,i)Perylene

1674-003 G3-2

J = lab qualifier indicating estimated value If field is left blank, lab qualifier is A - Accept all data

TABLE G-4

ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES TPH, TCL VOLATILES, TDS POL Storage Area Ellington Field (ANGRC)

02MW16AA MW-16 <0.23 ΑN A A A 02MW14AA MW-14 0.2J NA 02MW13AA MW-13 <0.2J 02MW12AA MW-12 <0.2J NA V X V O2MW11AA MW-11 0.27 O2FD10AA MW-10 Duplicate <0.2J NA 01 × 2222222 02MW10AA MW-10 <0.2J 680 O2MWOBAA MW-09 <0.2J NA 02MW08AA MW-08 0.4 A V N V 02MW07AA MW-07 0.2J 610 5 5 5 5 5 Sample ID Source l'gm /gn /gn Total Petroleum Hydrocarbor Total Dissolved Solids VOLATILES Benzene trans-1,3-dichloropropene 1,2-dichloroethene (total) Carbon Tetrachloride
Bromodichloromethane
1,2-dichloropropane
cis-1,3-dichloropropene
Trichloroethene
Dibromochloromethane
1,1,2-trichloroethane 1,1,2,2-tetrachloroethane Parameter Bromoform 4-methyl-2-pentanone Chloromethane
Bromomethane
Vinyl Chloride
Chloroethane
Methylene chloride Acetone
Carbon disulfide
1,1-dichloroethene
1,1-dichloroethane 1,1,1-trichlorethane Chloroform 1,2-dichloroethane Tetrachloroethene Chlorobenzene Ethylbenzene Styrene Xylene (total) 2-hexanone 2-butanone Toluene

TABLE G-5 FINAL

ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES TCL SEMIVOLATILES POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02MW07AA	02MW10AA	02FD10AA	02MW11AA
	Source	MW-07	MW-10	MW-10	MW-11
				Duplicate	

				Duplicate	
SEMI-VOLATILES	1		<u> </u>		
Phenol	ug/l	<10	<10	<10	<10
bis-(2-Chloroethyl)Ether	ug/l	<10	<10	<10	<10
2-Chorophenol	ug/l	<10	<10	<10	<10
1,3-Dichlorobenzene	ug/l	<10	<10	<10	<10
1,4-Dichlorobenzene	ug/l	<10	<10	<10	<10
1,2-Dichlorobenzene	ug/l	<10	<10	<10	<10
2-Methylphenol	ug/l	<10	<10	<10	<10
2,2'-oxybis(1-Chloropropane)	ug/l	<10	<10	<10	<10
4-Methylphenol	ug/l	<10	<10	<10	<10
N-Nitro-Di-n-Propylamine	ug/l	<10	<10	<10	<10
Hexachloroethane	ug/l	<10	<10	<10	<10
Nitrobenzene	ug/l	<10	<10	<10	<10
Iosphorone	ug/l	<10	<10	<10	<10
2-Nitrophenol	ug/l	<10	<10	<10	<10
2,4-Dimethylphenol	ug/l	<10	<10	<10	<10
bis(2-Chloroethoxy)Methane	ug/i	<10	<10	<10	<10
2,4-Dichlorophenol	ug/l	<10	<10	<10	<10
1,2,4-Trichlorobenzene	ug/l	<10	<10	<10	<10
Napthalene	ug/l	<10	<10	<10	<10
4-Chloroaniline	ug/l	<10	<10	<10	<10
Hexachlorobutadiene	ug/l	<10	<10	<10	<10
4-Chloro-3-Methylphenol	ug/l	<10	<10	<10	<10
2-Methylnapthalene	ug/l	<10	<10	<10	<10
Hexachlorocyclopentadiene	ug/l	<10	<10	<10	<10
2,4,6-Trichlorophenol	ug/l	<10	<10	<10	<10
2,4,5-Trichlorophenol	ug/l	<25	<25	<25	<25
2-Chloronapthalene	ug/l	<10	<10	<10	<10
2-Nitroaniline	ug/l	<25	<25	<25	<25
Dimethyl Phthalate	ug/l	<10	<10	<10	<10
Acenaphthylene	ug/l	<10	<10	<10	<10
2,6-Dinitrotoluene	ug/l	<10	<10	<10	<10
3-Nitroaniline	ug/l	<25	<25	<25	<25
Acenaphthene	ug/l	<10	<10	<10	<10
2,4-Dinitrophenol	ug/l	<25	<25	<25	<25
4-Nitrophenol	ug/l	<25	<25	<25	<25
Dibenzofuran	ug/l	<10	<10	<10	<10
2,4-Dinitrotoluene	ug/l	<10	<10	<10	<10
Diethylphthalate	ug/l	<10	<10	<10	<10
4-Chlorophenyl-phenylether	ug/l	<10	<10	<10	<10
Flourene	ug/l	<10	<10	<10	<10

1674-005 G5-1

TABLE G-5 (cont'd)

FINAL

ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES TCL SEMIVOLATILES POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02MW07AA	02MW10AA	02FD10AA	02MW11AA
	Source	MW-07	MW-10	MW-10	MW-11
				Duplicate	
4-Nitroaniline	ug/l	<25	<25	<25	<25
4,6-Dinitro-2-Methylphenol	ug/l	<25	<25	<25	<25
N-Nitrosodiphenylamine	ug/l	<10	<10	<10	<10
4-Bromophenyl-phenylether	ug/l	<10	<10	<10	<10
Hexachlorobenzene	ug/l	<10	<10	<10	<10
Pentachlorphenol	ug/i	<25	<25	<25	<25
Phenanthrene	ug/l	<10	<10	<10	<10
Anthracene	ug/l	<10	<10	<10	<10
Carbazole	ug/l	<10	<10	<10	<10
Di-n-Butylphthalate	ug/l	<10	<10	<10	<10
Fluoranthene	ug/l	<10	<10	<10	<10
Pyrene	ug/l	<10	<10	<10	<10
Butylbenzylphthalate	ug/l	<10	<10	<10	<10
3,3'-Dichlorobenzadine	ug/l	<10	<10	<10	<10
Benzo(a)Anthracene	ug/l	<10	<10	<10	<10
Chrysene	ug/l	<10	<10	<10	<10
bis(2-Ethylhexyl)Phthalate	ug/l	<10	3J	2J	4J
Di-n-Octyl Phthalate	ug/l	<10	<10	<10	<10
Benzo(b)Fluoranthene	ug/l	<10	<10	<10	<10
Benzo(k)Fluoranthene	ug/l	<10	<10	<10	<10
Benzo(a)pyrene	ug/l	<10	<10	<10	<10
Indeno(1,2,3-cd)Pyrene	ug/l	<10	<10	<10	<10
Dibenz(a,h)Anthracene	ug/l	<10	<10	<10	<10
Benzo(g,h,i)Perylene	ug/l	<10	<10	<10	<10

NA - not applicable

J = lab qualifier indicating estimated value

If field is left blank, lab qualifier is A - Accept all data

TABLE G-6

ANALYTICAL RESULTS FOR TRIP BLANKS POL Storage Area Ellington Field

Parameter	Sample ID	02TB01AA	02TB02AA	02TB03AA	02TB04AA	02TB05AA	O2TBO6AA	02TB07AA	02TB08AA	02TB09AA	02TB10AA	02TB11AA	02TB12AA
Chloromethane	/bn	×10	<10	<10	<10	ΝA	<10	٧	٧V	۷A	ΑN	VΑ	
Bromomethane	l/bn	<10	<10	<10	<10	NA	<10	NA	ΝA	۸A	Ϋ́	ΥN	
Vinyl Chloride	l/gu	<10	<10	<10	<10	NA	<10	NA	NA	NA	AN	NA	
Chloroethane	l/gu	<10	<10	<10	<10	AN	<10	ΑN	٩٧	NA	ΑN	ΨN	
Methylene chloride	l/Bn	<10	<10	<10	<10	ΑN	<10	NA	٧N	NA	ΥN	ΑN	
Acetone	l/bn	<10	<10	<10	<10	ΑN	<10	NA	AN	ΑN	٧N	ΑN	
Carbon disulfide	/bn	<10	<10	<10	<10	ΑN	<10	ΝA	N.A	NA	٧N	۷A	
1,1-dichloroethene	l/gu	<10	<10	<10	<10	NA	<10	NA	NA	NA	٧N	NA	
1,1-dichloroethane	l/bn	<10	<10	<10	< 10	ΥN	<10	ΑN	Ą	٧٧	ΑN	ΑN	
1,2-dichloroehtene	∦/ðin	<10	<10	<10	<10	٩V	<10	٧N	ΑN	۷V	ΑN	ΑN	
Chloroform	l/gu	<10	< 10	<10	<10	ΥN	<10	٧N	ΝA	۸N	ΑN	AN	
1,2-dichloroethane	/bn	<10	<10	<10	<10	ΝA	<10	NA	NA	NA	ΑN	ΝA	
2-butanone	l/bn	<10	<10	<10	< 10	Ν	<10	ΑN	ΑN	ΝA	NA	ΝA	
1,1,1-trichlorethane	l/gu	<10	< 10	<10	<10	ΥN	<10	ΑN	ΑN	ΑN	ΑN	ΑN	
Carbon Tetrachloride	l/gu	<10	< 10	<10	<10	ΑN	<10	NA	NA	ΑN	NA	ΝA	
Bromodichloromethane	l/gu	<10	< 10	<10	<10	NA	<10	NA	NA	NA	NA	NA	
1,2-dichloropropane	l/bn	<10	< 10	<10	<10	NA	<10	NA	NA	NA	NA	NA	
cis-1,3-dichloropropene	l/bn	<10	<10	<10	<10	ΑN	<10	NA	NA	ΝA	NA	NA	
Trichoroethane	l/gu	< 10	< 10	<10	<10	ΝA	<10	ΝA	AN	NA	NA	NA	
Benzene	l/gu	<10	<10	<10	<10	<6	<10	<6	<6	<5	<5	<6	1
trans-1,3-dichloropropene	l/bn	<10	< 10	<10	<10	NA	<10	ΑN	NA	NA	NA	NA	
Вготобогт	l/gu	<10	< 10	<10	<10	NA	<10	ΝA	AN	NA	ΝA	NA	
4-methyl-2-pentanone	l/gu	<10	<10	<10	<10	NA	<10	ΑN	NA	NA	NA	NA	
2-hexanone	l/bn	<10	< 10	<10	<10	NA	<10	ΝA	ΑN	NA	NA	NA	
Tetrachloroethene	l/bn	<10	< 10	<10	<10	NA	<10	ΝA	NA	NA	NA	NA	
1,1,2,2-tetrachioroethane (total)	l/Bn	<10	<10	<10	<10	νV	<10	ΝΑ	NA	ΝA	ΝΑ	ΝΑ	
Toluene	l/gu	<10	<10	<10	<10	9>	<10	<5	<6	9>	9>	9>	
Chlorobenzene	/Bn	<10	< 10	<10	<10	ΑN	<10	ΨN	ΑN	ΑN	ΑN	ΥN	-
Ethylbenzene	l/Bn	<10	< 10	<10	< 10	<6	<10	< 6	<5	<5	<6	<5	
Styrene	/bn	<10	<10	<10	<10	ΑN	<10	ΥN	ΥN	ΥN	ΑN	ΑN	
Xylene (total)	//Bn	< 10	< 10	<10	<10	<5	<10	<6	<6	<5	<5	<5	

If field is left blank, the qualifier is A - Accept all data

NA - Not Applicable

TABLE G-7

ANALYTICAL RESULTS FOR RINSATE BLANKS POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02RB01AA	02RB02AA	02RB03AA	02RB04AA	02RB05AA	O2RBO6AA	02RB07AA	02RBO8AA
Total Petroleum Hydrocarbons	mg/kg	<20	<20	<20	<20	< 20	<20	<207	<0.2J
VOLATILES									
Chloromethane	ug/kg	<10	<10	<10	ΑN	<10	ΑN	ΝΑ	<10
Bromomethane	ug/kg	<10	<10	<10	NA	<10	ΝΑ	NA	<10
Vinyl Chloride	ug/kg	<10	<10	<10	ΝΑ	<10	ΑN	ΝΑ	<10
Chloroethane	ug/kg	<10	<10	<10	ΑN	<10	ΑN	NA	<10
Methylene chloride	ug/kg	9	9	4	ΝΑ	9	ΑN	NA	2
Acetone	ug/kg	<10	<10	<10	NA	31	۸N	NA	<10
Carbon disulfide	ug/kg	<10	<10	<10	NA	<10	٩N	AN	<10
1,1-dichloroethene	ug/kg	<10	<10	<10	NA	<10	ΑN	ΑN	<10
1,1-dichloroethane	ug/kg	<10	<10	<10	NA	<10	ΑN	ΝΑ	<10
1,2-dichloroethene (total)	ug/kg	<10	<10	<10	NA	<10	۸N	۷A	<10
Chloroform	ug/kg	<10	<10	<10	NA	<10	ΑN	NA	<10
1,2-dichloroethane	ug/kg	<10	<10	<10	NA	<10	AN	۸A	<10
2-butanone	ug/kg	<10	<10	<10	NA	<10	A N	ΝΑ	<10
1,1,1-trichlorethane	ug/kg	<10	<10	<10	NA	<10	NA	ΑN	<10
Carbon Tetrachloride	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
Bromodichloromethane	ug/kg	<10	<10	< 10	NA	< 10	NA	NA	<10
1,2-dichloropropane	ug/kg	<10	<10	<10	NA	<10	NA	ΑN	<10
cis-1,3-dichloropropene	ug/kg	<10	<10	<10	NA	<10	ΝΑ	ΑN	<10
Trichloroethene	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
Dibromochloromethene	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
1,1,2-trichloroethane	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
Benzene	ug/kg	<10	<10	<10	<5	<10	<5	<5	<10
trans-1,3-dichloropropene	ug/kg	<10	<10	<10	NA	< 10	NA	NA	<10
Bromoform	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
4-methyl-2-pentanone	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
2-hexanone	ug/kg	<10	<10	< 10	NA	<10	NA	NA	<10
Tetrachloroethene	ug/kg	<10	<10	<10	NA	< 10	NA	AN	<10
1,1,2,2-tetrachloroethane	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
Toluene	ug/kg	<10	<10	<10	<5	<10	<5	<5	<10
Chlorobenzene	ug/kg	<10	<10	<10	NA	<10	NA	ΑN	<10
Ethylbenzene	ug/kg	<10	<5	<10	~ 5	2.1	> 2	<5	<10
Styrene	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
Xylene (total)	ug/kg	<10	<10	<10	<5	<10	<5	<5	<10
SEMI-VOLATILES									
Phenol	ug/kg	<330	<330	<330	NA AN	<330	A N	Ą Ą	<10

TABLE G-7 (cont'd)

ANALYTICAL RESULTS FOR RINSATE BLANKS POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02RB01AA	02RB02AA	02RB03AA	02RB04AA	O2RBO5AA	O2RB06AA	02RB07AA	02RBO8AA
bis-(2-Chloroethyl)Ether	ug/kg	<330	<330	<330	AN	<330	ΑN	٩V	<10
2-Chiorophenol	ug/kg	<330	<330	<330	NA	<330	ΨN	AN	<10
1,3-Dichlorobenzene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
1,4-Dichlorobenzene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
1,2-Dichlorobenzene	ug/kg	<330	<330	<330	NA	<330	ΝΑ	NA	<10
2-Methylphenol	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
2,2'-oxybis(1-Chloropropane)	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
4-Methylphenol	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
N-Nitro-Di-n-Propylamine	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Hexachloroethane	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Nitrobenzene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
losphorone	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
2-Nitrophenol	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
2,4-Dimethylphenol	ug/kg	<330	<330	<330	ΥN	<330	NA	ΑN	<10
bis(2-Chloroethoxy)Methane	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
1,2,4-Trichlorobenzene	ug/kg	29	<330	<330	NA	<330	NA	NA	<10
Napthalene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
4-Chloroaniline	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Hexachlorobutadiene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
4-Chloro-3-Methylphenol	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
2-Methylnapthalene	ug/kg	<330	<330	<330	NA	<330	ΝΑ	NA	< 10
Hexachlorocyclopentadiene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
2,4,6-Trichlorophenol	ug/kg	<330	<330	<330	NA	<330	ΑN	ΝΑ	<10
2,4,5-Trichlorophenol	ug/kg	<1600	< 1600	<1600	NA	<1600	NA	NA	<25
2-Chloronapthalene	ug/kg	<330	<330	<330	ΑN	<330	NA	NA	<10
2-Nitroaniline	ug/kg	<1600	< 1600	< 1600	NA	<330	NA	NA	< 25
Dimethyl Phthalate	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Acenaphthylene	ug/kg	<330	<330	<330	AN	<330	۸N	AN	<10
2,6-Dinitrotoluene	ug/kg	<330	<330	<330	NA	<330	۸N	ΑN	<10
3-Nitroaniline	ug/kg	<1600	<1600	<1600	NA	<1600	۸N	NA	<25
Acenaphthene	ug/kg	<330	<330	<330	NA	<330	NA	ΥN	<10
2,4-Dinitrophenol	ug/kg	<1600	<1600	<1600	NA	<330	۸N	ΝΑ	<25
4-Nitrophenol	ug/kg	<1600	< 1600	<1600	NA	< 1600	ΝΑ	NA	<25
Dibenzofuran	ug/kg	<330	<330	<330	NA	<330	۸N	ΝΑ	<10
2,4-Dinitrotoluene	ug/kg	<330	<330	<330	NA	<330	ΝΑ	AN	< 10
Diethylphthalate	ug/kg	<330	<330	<330	NA	<330	۸N	AN	<10
4-Chlorophenyl-phenylether	ug/kg	<330	<330	<330	NA	<330	NA	AN	< 10
Flourene	ug/kg	<330	<330	<330	NA	<330	۷N	NA	<10
4-Nitroaniline	ug/kg	<1600	< 1600	<1600	NA	<1600	۸N	NA	<25
4,6-Dinitro-2-Methylphenol	ug/kg	<1600	<1600	<1600	NA	<1600	A N	٧×	< 25

TABLE G-7 (cont'd)

ANALYTICAL RESULTS FOR RINSATE BLANKS POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02RB01AA	02RB02AA	02RB03AA	02RB04AA	02RB05AA	02RB06AA	02RB07AA	02RBO8AA
N-Nitrosodiphenylamine	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
4-Bromophenyl-phenylether	ug/kg	<330	<330	<330	AN	<330	NA	ΝΑ	<10
Hexachlorobenzene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Pentachlorphenol	ug/kg	<1600	<1600	< 1600	NA	<1600	NA	NA	<10
Phenanthrene	ug/kg	<330	<330	<330	NA	<330	ΑN	ΑN	<10
Anthracene	ug/kg	<330	<330	<330	ΝΑ	<330	NA	ΑN	<10
Carbazole	ug/kg	<330	<330	<330	NA	<330	NA	AN	<10
Di-n-Butylphthalate	ug/kg	<330	<330	<330	ΥN	<330	NA	ΑN	<10
Fluoranthene	ug/kg	<330	<330	<330	NA	<330	NA	ΑN	<10
Pyrene	ug/kg	81	<330	<330	NA	<330	ΑN	NA	<10
Butylbenzylphthalate	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
3,3'-Dichlorobenzadine	ug/kg	<660	> 099	<660	NA	099>	NA	NA	<10
Benzo(a) Anthracene	ug/kg	<330	<330	<330	NA	<330	ΝΑ	ΝΑ	<10
Chrysene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
bis(2-Ethylhexyl)Phthalate	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Di-n-Octyl Phthalate	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Benzo(b)Fluoranthene	ug/kg	<330	<330	<330	ΝΑ	<330	NA	ΝΑ	<10
Benzo(k)Fluoranthene	ug/kg	<330	<330	<330	NA	<330	ΑN	ΑN	<10
Benzo(a)pyrene	ug/kg	<330	<330	<330	NA	<330	NA	ΑN	<10
Indeno(1,2,3-cd)Pyrene	ug/kg	<330	<330	<330	NA	<330	NA	ΝΑ	<10
Dibenzo(a,h)Anthracene	ug/kg	<330	<330	<330	NA	<330	ΑN	ΑN	<10
Benzo(g,h,i)Perylene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10

NA - Not Applicable

J = lab qualifier indicating estimated value

If field is blank, lab qualifier is A - Accept all data

TABLE G-8 FINAL

ANALYTICAL RESULTS FOR FIELD BLANKS POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02FB01AA	02FB02AA
Total Petroleum Hydrocarbons	mg/kg	<20	<20
VOLATILES			
Chloromethane	ug/kg	<10	<10
Bromomethane	ug/kg	<10	<10
Vinyl Chloride	ug/kg	<10	<10
Chlorethane	ug/kg	<10	<10
Methylene chloride	ug/kg	7	<10
Acetone	ug/kg	<10	<10
Carbon disulfide	ug/kg	<10	<10
1,1-dichloroethene	ug/kg	<10	<10
1,1-dichloroethane	ug/kg	<10	<10
1,2-dichloroethene	ug/kg	<10	<10
Chloroform	ug/kg	<10	<10
1,2-dichloroethane	ug/kg	<10	<10
2-butanone	ug/kg	<10	<10
1,1,1-trichlorethane	ug/kg	<10	<10
Carbon Tetrachloride	ug/kg	<10	<10
Bromodichloromethane	ug/kg	<10	<10
1,2-dichloropropane	ug/kg	<10	<10
cis-1,3-dichloropropene	ug/kg	<10	<10
Trichloroethene	ug/kg	<10	<10
Dibromochloromethane	ug/kg	<10	<10
1,1,2-trichloroethane	ug/kg	<10	<10
Benzene	ug/kg	<10	<10
trans-1,3-dichloropropene	ug/kg	<10	<10
Bromoform	ug/kg	<10	<10
4-methyl-2-pentanone	ug/kg	<10	<10
2-hexanone	ug/kg	<10	<10
Tetrachloroethene	ug/kg	<10	<10
1,1,2,2-tetrachloroethane	ug/kg	<10	<10
Toluene	ug/kg	<10	<10
Chlorobenzene	ug/kg	<10	<10
Ethylbenzene	ug/kg	<10	<10
Sytrene	ug/kg	<10	<10
Xylene	ug/kg	<10	<10
SEMI-VOLATILES			
Phenol	ug/kg	<330	<330
bis-(2-Chloroethyl)Ether	ug/kg	<330	<330
2-Chlorophenol	ug/kg	<330	<330
1,3-Dichlorobenzene	ug/kg	<330	<330
1,4-Dichlorobenzene	ug/kg	<330	<330
1,2-Dichlorobenzene	ug/kg	<330	<330
2-Methylphenol	ug/kg	<330	<330

1674-008 G8-1

TABLE G-8 (cont'd)

ANALYTICAL RESULTS FOR FIELD BLANKS POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02FB01AA	02FB02AA
2,2'-oxybis(1-Chloropropane)	ug/kg	<330	<330
4-Methylphenol	ug/kg	<330	<330
N-Nitro-Di-n-Propylamine	ug/kg	<330	<330
Hexachloroethane	ug/kg	<330	<330
Nitrobenzene	ug/kg	<330	<330
Isophorone	ug/kg	<330	<330
2-Nitrophenol	ug/kg	<330	<330
2,4-Dimethylphenol	ug/kg	<330	<330
bis(2-Chloroethoxy)Methane		<330	<330
2,4-Dichlorophenol	ug/kg	<330	<330
1,2,4-Trichlorobenzene	ug/kg	<330	<330
	ug/kg	<330	
Napthalene	ug/kg	<330	<330
4-Chloroaniline	ug/kg		<330
Hexachlorobutadiene	ug/kg	<330 <330	<330
4-Chloro-3-Methylphenol	ug/kg		<330 <330
2-Methylnapthalene	ug/kg	<330	
Hexachlorocyclopentadiene	ug/kg	<330	<330
2,4,6-Trichlorophenol	ug/kg	<330	<330
2,4,5-Trichlorophenol	ug/kg	<1600	<1600
2-Chloronapthalene	ug/kg	<330	<330
2-Nitroaniline	ug/kg	<1600	<1600
Dimethyl Phthalate	ug/kg	<330	<330
Acenaphthylene	ug/kg	<330	<330
2,6-Dinitrotoluene	ug/kg	<330	<330
3-Nitroaniline	ug/kg	<1600	<1600
Acenaphthene	ug/kg	<330	<330
2,4-Dinitrophenol	ug/kg	<1600	<1600
4-Nitrophenol	ug/kg	<1600	<1600
Dibenzofuran	ug/kg	<330	<330
2,4-Dinitrotoluene	ug/kg	<330	<330
Diethylphthalate	ug/kg	<330	<330
4-Chlorophenyl-phenylether	ug/kg	<330	<330
Flourene	ug/kg	<330	<330
4-Nitroaniline	ug/kg	<1600	<1600
4,6-Dinitro-2-Methylphenol	ug/kg	<1600	<1600
N-Nitrosodiphenylamine	ug/kg	<330	<330
4-Bromophenyl-phyenylether	ug/kg	<330	<330
Hexachlorobenzene	ug/kg	<330	<330
Pentachlorphenol	ug/kg	<1600	<1600
Phenanthrene	ug/kg	<330	<330
Anthracene	ug/kg	<330	<330
Carbazole	ug/kg	<330	<330
Di-n-Butylphthalate	ug/kg	<330	<330

1674-008 G8-2

ANALYTICAL RESULTS FOR FIELD BLANKS POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02FB01AA	02FB02AA
Fluoranthene	ug/kg	<330	<330
Pyrene	ug/kg	<330	<330
Butylbenzylphthalate	ug/kg	<330	<330
3,3-Dichlorobenzadine	ug/kg	<330	<330
Benzo(a)Anthracene	ug/kg	<330	<330
Chrysene	ug/kg	<330	<330
bis(2-Ethylhexyl)Phthalate	ug/kg	<330	<330
Di-n-Octyl Phthalate	ug/kg	<330	<330
Benzo(b)Fluoranthene	ug/kg	<330	<330
Benzo(k)Fluoranthene	ug/kg	<330	<330
Indeno(1,2,3-cd)Pyrene	ug/kg	<330	<330
Dibenzo(a,h)Anthracene	ug/kg	<330	<330
Benzo(g,h,i)Perylene	ug/kg	<330	<330

If field is left blank, the qualifier is A - Accept all data

BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT TPH DATA PACKAGE ELL1, PKG1

PACE, INCORPORATED HOUSTON ANALYTICAL LABORATORY SEPTEMBER 2, 1993

CASE COMMENTS BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT ELL1, PKG1 MATRIX: SOIL

- 1. This data package covers water samples received from August 5 to August 11. Refer to the enclosed list of samples and corresponding client identifications.
- 2. The samples were analyzed according to the EPA method 418.1 and reported on a dry weight basis.
- 3. The data was reported via the PACE, INC. LIMS system, which includes all the QA/QC data requirments for Level C HAZWRAP protocols.

ELLINGTON AFB TRACKING CHART

CASE I.D.: ELL1

SDG: PKG1 MATRIX: SOIL

PACE NUMBER	CLIENT I.D.	DATE SXD	DATE RCVD	PERCENT MOISTURE	ANALYSES REQUIRED
H245825	02-SB21-A-A	8/5	8/5	26	BTEX, TPH
H245826	02-SB21-A-A MS			26	
H245827	02-SB21-A-A MSD			27	
H245828	02-SB21-B-A	İ		28	
H245829	02-FD21-B-A	ĺ	İ	28 -	
H245830	02-SB21-C-A	İ	İ	19	
H245831	02-SB16-A-A	İ		25	
H245832	02-SB16-C-A	İ	İ	19	
H245833	02-SB20-A-A			24	
H245834	02-SB20-C-A	İ	İ	18	
H246033	02-SB18-A-A	8/6	8/6	20	
H246034	02-SB18-C-A			19	
H246035	02-SB17-A-A			26	
H246036	02-SB17-B-A			28	
H246037	02-SB17-C-A		1	20	
H246699	02-SB19-B-A	8/11	8/11	26	
H246700	02-SB19-C-A			21	
H246701	02-SB23-A-A			6.3	•
H246702	02-SB23-B-A			28	
H246703	02-SB23-C-A			17	
H246704	02-FD23-C-A			15	
H246705	02-SB22-A-A			27	
H246706	02-SB22-B-A	1		28	
H246707	02-SB22-C-A			20	



September 02, 1993

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB21-A-A

LSG SAMPLE NO: H0245825

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

APPROVED BY:

DATE RECEIVED: 05-AUG-93

TEST

LN CODE DETERMINATION RESULT

UNIT

G107S

BTEX Package

Level C BTEX data package

1685s

Petroleum Hydrocarbons

1800 3

2

CLP - percent moisture

CLP Data Package Deliverable DPACK

Done

< 27 mg/kg

%

26

Done

COMMENTS: Results reported on a dry weight basis.

Case: ELL1; SDG: PKG1 consists of PACE sample numbers: H245825 - H245834; H246033 - H246037; H246699 - H246707

The initial calibration verification (ICV) for TPH is as follows:

Date/Time run: 8/17/93 1607; Percent Recovery = 104%. The continuing calibrations (CCV) for TPH are as follows:

Date/Time run Percent Recovery

8/17/93 1631 114% 8/18/93 0951 117% 8/18/93 0958 117%



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RESULT UNITS

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

P.O. NO.: 1K94BC

LSG SAMPLE NO: H0245826

SAMPLE ID: 02-SB21-A-A MS

PACE PROJECT: H07180001

LSG CLIENT NO: 0718 0001

PACE CLIENT: 620438

DATE RECEIVED: 05-AUG-93

DATE SAMPLED: 05-AUG-93

APPROVED BY: D Meyer

mg/kg

%

TEST <u>LN</u>

BTEX Package Level C BTEX data package

2 1685S 3

Petroleum Hydrocarbons CLP - percent moisture 1800

DPACK

COMMENTS: % Recovery Petroleum Hydrocarbons = 112.7 % .

Results reported on a dry weight basis.

CLP Data Package Deliverable

G107S

DETERMINATION

500 26

Done



September 02, 1993

Report No.: 00026903

Section A Page 3

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB21-A-A MSD

LSG SAMPLE NO: H0245827

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

DATE RECEIVED: 05-AUG-93

APPROVED BY: D Meyer

 LN	TEST CODE	DETERMINATION	RESULT	UNITS
 			-,	
1	G107S	BTEX Package		
		Level C BTEX data package	Done	
2	16858	Petroleum Hydrocarbons	480	mg/kg
3	1800	CLP - percent moisture	27	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: % Moisture Relative Percent Difference = 3.8 .

Petroleum Hydrocarbons recovery = 106.9 %; RPD = 5.54 .

Results reported on a dry weight basis.

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September 02, 1993

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB21-B-A

LSG SAMPLE NO: H0245828

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

05-AUG-93

DATE RECEIVED: APPROVED BY: D Meyer

TEST

LN CODE

DETERMINATION

RESULT

G107S

BTEX Package

Level C BTEX data package

Petroleum Hydrocarbons

1800 .3 DPACK

16858

2

CLP - percent moisture CLP Data Package Deliverable Done

49 mg/kg

%

28

Done

COMMENTS: Results reported on a dry weight basis.



September 02, 1993 Report No.: 00026903

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001
PACE CLIENT: 620438

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-FD21-B-A

LSG SAMPLE NO: H0245829

P.O. NO.: 1K94BC

DATE SAMPLED: 05-AUG-93

DATE RECEIVED: 05-AUG-93

APPROVED BY: D Meyer

LN	TEST CODE	DETERMINATION	RESULT	UNITS
	G107S	BTEX Package	٠.	
1	61075	Level C BTEX data package	Done	
2	16858	Petroleum Hydrocarbons	< 28	mg/kg
3	1800	CLP - percent moisture	28	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB21-C-A

LSG SAMPLE NO: H0245830

P.O. NO.: 1K94BC

DATE SAMPLED: 05-AUG-93

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE RECEIVED: 05-AUG-93

APPROVED BY: D Meyer

 <u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
 1	G107S	BTEX Package		
•	3.070	Level C BTEX data package	Done	
2	1685S	Petroleum Hydrocarbons	49	mg/kg
3	1800	CLP - percent moisture	19	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.

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LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB16-A-A

LSG SAMPLE NO: H0245831

P.O. NO.: 1K948C

DATE SAMPLED: 05-AUG-93

DATE RECEIVED: 05-AUG-93

APPROVED BY: D Meyer

 				•••••
LN	TEST CODE	DETERMINATION	RESULT	UNITS
 				
1	G107S	BTEX Package		
		Level C BTEX data package	Done	
2	16858	Petroleum Hydrocarbons	40	mg/kg
3	1800	CLP - percent moisture	25	% —
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB16-C-A LSG SAMPLE NO: H0245832

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

DATE RECEIVED: 05-AUG-93

APPROVED BY: D Meyer

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	G107S	BTEX Package	•	
		Level C BTEX data package	Done	
2	1685S	Petroleum Hydrocarbons	37	mg/kg
3	1800	CLP - percent moisture	19	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.



September 02, 1993

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

LSG SAMPLE NO: H0245833

SAMPLE ID: 02-SB20-A-A

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

DATE RECEIVED: 05-AUG-93

APPROVED BY: D Meyer

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	G107S	BTEX Package Level C BTEX data package	Done	
2	1685s	Petroleum Hydrocarbons	39	mg/kg
3	1800	CLP - percent moisture	24	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.



September 02, 1993

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB20-C-A

LSG SAMPLE NO: H0245834 P.O. NO.: 1K94BC

PACE PROJECT: H07180001

LSG CLIENT NO: 0718 0001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

DATE RECEIVED:

05-AUG-93

APPROVED BY: D Meyer

TEST LN CODE

DETERMINATION

RESULT

UNITS

1 G107S

2

BTEX Package Level C BTEX data package

Petroleum Hydrocarbons

1800 3 DPACK

1685S

CLP - percent moisture CLP Data Package Deliverable Done

36 mg/kg %

18 Done

COMMENTS: Results reported on a dry weight basis.

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574 HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

..LSG SAMPLE NO: H0246033

DPACK

SAMPLE ID: 02-SB18-A-A

P.O. NO.: 1K94BC

CLP Data Package Deliverable

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 06-AUG-93

Done

DATE RECEIVED: 06-AUG-93

APPROVED BY:

D Meyer

<u>ln</u>	TEST CODE	DETERMINATION	RESULT	UNITS
 1	G107s	BTEX Package	-	
•	01010	Level C BTEX data package	Done	
2	16858	Petroleum Hydrocarbons	50	mg/kg
3	1800	CLP - percent moisture	20	%

COMMENTS: Results reported on a dry weight basis.



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB18-C-A

LSG SAMPLE NO: H0246034

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001
PACE PROJECT: H07180001
PACE CLIENT: 620438

DATE SAMPLED: 06-AUG-93

DATE RECEIVED: 06-AUG-93

APPROVED BY: D Meyer

TEST DETERMINATION RESULT LN CODE G107S 1 BTEX Package Level C BTEX data package Done 2 37 1685s Petroleum Hydrocarbons mg/kg 19 % 1800 CLP - percent moisture DPACK CLP Data Package Deliverable Done

COMMENTS: Results reported on a dry weight basis.



September 02, 1993 Report No.: 00026903

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB17-A-A

P.O. NO.: 1K94BC

LSG SAMPLE NO: H0246035

DATE SAMPLED: 06-AUG-93

DATE RECEIVED: 06-AUG-93

APPROVED BY: D Meyer

<u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	G107S	BTEX Package	•	
		Level C BTEX data package	Done	
2	16858	Petroleum Hydrocarbons	54	mg/kg
3	1800	CLP - percent moisture	26	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB17-B-A

LSG SAMPLE NO: H0246036

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 06-AUG-93

DATE RECEIVED: 06-AUG-93

APPROVED BY: D Meyer

TEST UNITS LN CODE RESULT DETERMINATION G107S BTEX Package Level C BTEX data package Done 1685S 42 mg/kg 2 Petroleum Hydrocarbons 28 % 3 1800 CLP - percent moisture DPACK CLP Data Package Deliverable Done

COMMENTS: Results reported on a dry weight basis.

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB17-C-A

LSG SAMPLE NO: H0246037

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001
PACE PROJECT: H07180001

ACE PROJECT: H07180001
PACE CLIENT: 620438

PACE CETENT. 020430

DATE SAMPLED: 06-AUG-93

DATE RECEIVED: 06-AUG-93

APPROVED BY: D Meyer

TEST DETERMINATION RESULT LN CODE 1 G107S BTEX Package Level C BTEX data package Done 38 mg/kg 2 1685S Petroleum Hydrocarbons 20 % _ 1800 CLP - percent moisture 3 Done CLP Data Package Deliverable DPACK

COMMENTS: Results reported on a dry weight basis.

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB19-B-A

LSG SAMPLE NO: H0246699

P.O. NO.: 1K94BC

ADDRESS: P.O. BOX 4574

PACE PROJECT: H07180001

LSG CLIENT NO: 0718 0001

PACE CLIENT: 620438

DATE SAMPLED: 11-AUG-93

DATE RECEIVED: 11-AUG-93

APPROVED BY: D Meyer

 <u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	G107S	BTEX Package		
		Level C BTEX data package	Done	
2	1685S	Petroleum Hydrocarbons	< 27	mg/kg
3	1800	CLP - percent moisture	26	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.



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LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 11-AUG-93

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

LSG SAMPLE NO: H0246700

P.O. NO.: 1K94BC

SAMPLE ID: 02-SB19-C-A

DATE RECEIVED: 11-AUG-93

APPROVED BY: D Meyer

TEST RESULT CODE DETERMINATION <u>LN</u> G107S 1 BTEX Package Done Level C BTEX data package < 25 mg/kg 2 1685s Petroleum Hydrocarbons 21 % 3 1800 CLP - percent moisture DPACK CLP Data Package Deliverable Done

COMMENTS: Results reported on a dry weight basis.



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LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB23-B-A

LSG SAMPLE NO: H0246702

P.O. NO.: 1K94BC

DATE SAMPLED: 11-AUG-93

DATE RECEIVED: 11-AUG-93

APPROVED BY: D Meyer

<u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	G107S	BTEX Package	•	
		Level C BTEX data package	Done	
2	1685S	Petroleum Hydrocarbons	< 28	mg/kg
3	1800	CLP - percent moisture	28	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-FD23-C-A

LSG SAMPLE NO: H0246704

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 11-AUG-93

DATE RECEIVED:

11-AUG-93

APPROVED BY: D Meyer

<u>LI</u>	TEST N CODE	DETERMINATION	RESULT	UNITS
1	G107S	BTEX Package Level C BTEX data package	Done	
2 3 4	16858 1800 DPACK	Petroleum Hydrocarbons CLP - percent moisture CLP Data Package Deliverable	< 24 15 Done	mg/kg %

COMMENTS: Results reported on a dry weight basis.

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LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB22-A-A

LSG SAMPLE NO: H0246705

P.O. NO.: 1K94BC

DATE SAMPLED: 11-AUG-93

DATE RECEIVED: 11-AUG-93

APPROVED BY: D Meyer

 <u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	G107S	BTEX Package Level C BTEX data package	Done	
2	16858	Petroleum Hydrocarbons	< 27	mg/kg
3	1800	CLP - percent moisture	27	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.

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LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001 PACE CLIENT: 620438

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB22-B-A

LSG SAMPLE NO: H0246706

P.O. NO.: 1K94BC

DATE SAMPLED: 11-AUG-93

DATE RECEIVED: 11-AUG-93

APPROVED BY: D Meyer

		TEST			
]	<u>ln</u>	CODE	DETERMINATION	RESULT	UNITS
	1	G107S	BTEX Package	•	
			Level C BTEX data package	Done	
;	2	1685s	Petroleum Hydrocarbons	< 28	mg/kg
	3	1800	CLP - percent moisture	28	%
4	4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.

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LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB22-C-A

LSG SAMPLE NO: H0246707

P.O. NO.: 1K94BC

DPACK

DATE SAMPLED: 11-AUG-93

Done

DATE RECEIVED: 11-AUG-93

APPROVED BY: D Meyer

TEST LN CODE DETERMINATION RESULT UNITS G107S 1 BTEX Package Done Level C BTEX data package 38 mg/kg 2 1685S Petroleum Hydrocarbons % _ 20 1800 CLP - percent moisture 3

COMMENTS: Results reported on a dry weight basis.

CLP Data Package Deliverable

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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

	•			SAMPLE P	REPARATION		SAI	APLE /		
	TEST	PREP	LR-			LR-			ANLS	***********
N 	CODE	BATCH	METHOD	DATE/TIME	ANALYST	METHOD	DATE/TIME	ANA	YST BATCH	INSTRUMEN
AM	PLE ID:	02-SB2	1-A-A				LSG SAMPLE	E NO:	H0245825	
	G107S	33042	NA			19-8020	11-AUG-93 1940	DFF	0	7287GC
!	1685s	33171	19-3550			02-418.1	17-AUG-93 1608	3 LJH	0	302WAT
;	1800	33124	NA			20-D21SV	16-AUG-93 2200) JB	0	004WAT
	DPACK	0	NA				02-SEP-93 1700	SLG	0	
<u>R</u>			ture Refe					•		
2	_			•	f Water & Wastes, 198					
9				-	id Waste, 3rd ed, Nov					
0	USEPA	CLP SOW	for Orga	anic Analysis,	Multi-Conc., Rev. 2	/88				
AM	PLE ID:	02-582	1-A-A MS				LSG SAMPLE	NO:	н0245826	
	G107S	33042	NA			19-8020	11-AUG-93 2016	DFF	0	7287GC
	1685s	33171	19-3550			02-418.1	17-AUG-93 1609) LJH	0	302WAT
	1800	33124	NA			20-D21SV	16-AUG-93 2200) JB	0	004WAT
	DPACK	0	NA				02-SEP-93 1700	SLG	0	
R			ture Refe							
2				-	f Water & Wastes, 198					
9				-	id Waste, 3rd ed, Nov					
0	USEPA	CLP SOW	tor Orga	anic Analysis,	Multi-Conc., Rev. 2	/88				
AM	PLE ID:	02-SB2	1-A-A MSD)			LSG SAMPLE	NO:	H0245827	
	G107S	33042	NA			19-8020	11-AUG-93 2052	2 DFF	0	7287GC
		33171	19-3550			02-418.1	17-AUG-93 1611	LJH	0	302WAT
	16855					20-h21cv	16-AUG-93 2200) JB	0	004WAT
	1800	33124	NA			20 02131	.000 /5 220		•	• • • • • • • • • • • • • • • • • • • •

EPA-Methods for Chemical Analysis of Water & Wastes, 1984.



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

..... ----- SAMPLE PREPARATION ----- SAMPLE ANALYSIS ------LR-TEST PREP LR-ANALYST BATCH INSTRUMENT METHOD DATE/TIME LN CODE BATCH METHOD DATE/TIME ANALYST LR Method Literature Reference 19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986 20 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88 LSG SAMPLE NO: H0245828 SAMPLE ID: 02-SB21-B-A G107S 33042 NA 19-8020 09-AUG-93 1645 DFF 7287GC 02-418.1 17-AUG-93 1613 LJH **302WAT** 1685s 33171 19-3550 2 20-D21SV 16-AUG-93 2200 JB 004WAT 1800 33124 3 NA 02-SEP-93 1700 SLG DPACK 0 Method Literature Reference LR EPA-Methods for Chemical Analysis of Water & Wastes, 1984. EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986 19 20 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88 LSG SAMPLE NO: H0245829 SAMPLE ID: 02-FD21-B-A 19-8020 09-AUG-93 1721 DFF 7287GC G107S 33042 NA **302WAT** 02-418.1 17-AUG-93 1615 LJH 1685s 33171 19-3550 20-D21SV 16-AUG-93 2200 JB 004WAT 3 1800 33124 NA 02-SEP-93 1700 SLG DPACK 0 Method Literature Reference EPA-Methods for Chemical Analysis of Water & Wastes, 1984. 19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986

20 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88

SAMPLE ID: 02-SB21-C-A

LSG SAMPLE NO: H0245830



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

				SAMPLE P	REPARATION			- SAM	PLE ANA	ANLS	
LN	TEST CODE	PREP BATCH	LR- METHOD	DATE/TIME	ANALYST	LR- METHOD	DATE/TIME		ANALYS		INSTRUMEN
.N			ME11100								
1	G107S	33042	NA				09-AUG-93			0	7287GC
2	16858	33171	19-3550				17-AUG-93			0	302WAT
5	1800	33124	NA			20-D21SV	16-AUG-93			0	004WAT
•	DPACK	0	NA				02-SEP-93	1700	SLG	0	
R			ture Refe		•						
2					f Water & Wastes,						
9					id Waste, 3rd ed,						
0	USEPA	CLP SOL	for Orga	anic Analysis,	Multi-Conc., Rev.	. 2/88					
		02.004					156.5	AMDI F	NO. I	10245831	
А	IPLE ID:	02-SB1	10-A-A		•		130 3	All LL		10243031	
	G107S	33042	NA			19-8020	11-AUG-93	2205	DFF	0	7287GC
	16858	_	19-3550			02-418.1	17-AUG-93	1620	LJH	0	302WAT
	1800	33124	NA			20-D21SV	16-AUG-93	2200	JB	0	004WAT
	DPACK	0	NA '				02-SEP-93	1700	SLG	0	
.R	Metho	d Litera	sture Refe	erence							
2				•	f Water & Wastes,		•				
9					id Waste, 3rd ed,						
0	USEPA	CLP SOL	/ for Orga	anic Analysis,	Multi-Conc., Rev.	. 2/88					
·Δ	IPLE ID:	02-SB1	16-C-A				LSG S	AMPLE	NO: H	10245832	
	G107S	33042	NA			19-8020	09-AUG-93	1910	DFF	0	7287GC
	1685s	33171	19-3550			02-418.1	17-AUG-93	1622	LJH	0	302WAT
<u> </u>		33124	NA			20-D21sV	16-AUG-93	2200	JB	0	004WAT
	1800										

EPA-Methods for Chemical Analysis of Water & Wastes, 1984. EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

				SAMPLE P	REPARATION		SAM	PLE A	NALYSIS	
	TEST	PREP	LR-			LR-			ANLS	
LN	CODE		METHOD	DATE/TIME	ANALYST	METHOD	DATE/TIME	ANAL	YST BATCH	INSTRUMENT
<u>LR</u>	Metho	d Litera	ature Ref	erence						
20	USEPA	CLP SOL	for Org	anic Analysis,	Multi-Conc., Rev.	2/88				
SAM	PLE ID:	02-SB2	20-A-A				LSG SAMPLE	NO:	н0245833	
1	G107S	33042	NA			19-8020	11-AUG-93 2041	DFF	0	7287GC
2	16858	33171	19-3550	ı		02-418.1	17-AUG-93 1623	LJH	0	302WAT
3	1800	33124	NA			20-D21SV	16-AUG-93 2200	JB	.0	004WAT
4	DPACK	0	NA				02-SEP-93 1700	SLG	0	
<u>LR</u>	Metho	d Liter:	ature Ref	erence						_
02					f Water & Wastes, 1	984 -				
19				•	id Waste, 3rd ed, N					
20				-	Multi-Conc., Rev.					
SAM	PLE ID:	02-SB2	20-C-A				LSG SAMPLE	NO:	н0245834	
1	G107S	33042	NA			19-8020	09-AUG-93 2023	DFF	0	7287GC
2	1685s	33171	19-3550	1	•	02-418.1	12-AUG-93 500	LJH	0	302WAT
3	1800	33124	NA			20-D21SV	16-AUG-93 2200	JB	0	004WAT
4	DPACK	0	NA				02-SEP-93 1700	SLG	0	
<u>LR</u>	Metho	d Litera	ature Ref	erence						
02					f Water & Wastes, 1	984.				
19				· · · · · · · · · · · · · · · · · · ·	id Waste, 3rd ed, N					
20				-	Multi-Conc., Rev.					
SAM	PLE ID:	02-SB1	18-A-A				LSG SAMPLE	NO:	н0246033	
1	G107S	33042	NA			19-8020	09-AUG-93 2248	DFF	0	7287GC



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

	TEST	PREP	LR-			LR-			ANLS	
	CODE	BATCH	METHOD	DATE/TIME	ANALYST	METHOD	DATE/TIME	ANA	YST BATCH	INSTRUME
-	1685s	33171	19-3550			02-418.1	17-AUG-93 16	27 LJH	0	302WAT
	1800	33124	NA			20-D21sV	16-AUG-93 22	00 JB	0	004WAT
	DPACK	0	NA				02-SEP-93 17	00 SLG	0	
	Metho	d Litera	ture Refe	erence						
	EPA-M	ethods f	or Chemic	al Analysis o	f Water & Wastes,	1984.				
				_	id Waste, 3rd ed,					
	USEPA	CLP SOW	l for Orga	nic Analysis,	Multi-Conc., Rev	. 2/88				
4	PLE ID:	02-SB1	8-C-A				LSG SAMP	LE NO:	но246034	
	G107S	33042	NA			19-8020	09-AUG-93 23	25 DFF	0	7287GC
	16855		19-3550			02-418.1	17-AUG-93 16	29 LJH	0	302WAT
	1800	33124	NA			20-D21sV	16-AUG-93 22	00 JB	0	004WAT
	DPACK	0	NA .				02-SEP-93 17	00 SLG	0	
			iture Refe							
				•	f Water & Wastes,					
					id Waste, 3rd ed,					
	USEPA	CLP SOW	l for Orga	nic Analysis,	Multi-Conc., Rev	. 2/88				
41	PLE ID:	02-SB1	7-A-A				LSG SAMP	LE NO:	H0246035	
	G107S	33042	NA			19-8020	10-AUG-93 1	DFF	0	7287GC
	1685s	33171	19-3550			02-418.1	17-AUG-93 16	32 LJH	0	302WAT
	1800	33124	NA			20-D21SV	16-AUG-93 22	00 JB	0	004WAT
	DPACK	0	NA		,		02-SEP-93 17	00 SLG	0	
	Metho	d Litera	nture Refe	rence						
	110 0110			·· · · · · · · ·						

USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88

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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

	TF6*	0055				LR-	SA		ANLS	
M	TEST CODE	PREP BATCH		DATE/TIME	ANAI YST	METHOD	DATE/TIME	ANAL	YST BATCH	INSTRUMENT
N 			ME11100							
AM	PLE ID:	02-SB1	7-B-A				LSG SAMPL	E NO:	н0246036	
	G107S	33042	NA			19-8020	11-AUG-93 231	7 DFF	0	7287GC
	1685S	33171	19-3550			02-418.1	17-AUG-93 163	4 LJH	0	302WAT
	1800	33124	NA			20-D21SV	16-AUG-93 220	0 JB	0	004WAT
	DPACK		NA				02-SEP-93 170	0 SLG	0	
<u> </u>			ture Refe		of Hotor & Hostos	108/		•		
2				•	of Water & Wastes,					
,					id Waste, 3rd ed,					
0	USEPA	CLP SUM	r tor urga	airic Milatysis,	Multi-Conc., Rev	. 2/00				
٩M	PLE ID:	02-SB1	7-C-A				LSG SAMPL	E NO:	но246037	
	PLE ID: G107S		7-C-A NA			19-8020	LSG SAMPL			7287GC
		33042				.,		DFF	0	7287GC 302WAT
	G107\$	33042	NA ·			02-418.1	10-AUG-93 114	DFF 6 LJH	0 0	
	G107\$ I685\$	33042 33171 33124	NA 19-3550			02-418.1	10-AUG-93 114 17-AUG-93 163	DFF 6 LJH 0 JB	0 0 0	302WAT
2	G107S I685S I800 DPACK	33042 33171 33124 0 d Litera	NA 19-3550 NA NA		•	02-418.1 20-D21SV	10-AUG-93 114 17-AUG-93 163 16-AUG-93 220	DFF 6 LJH 0 JB	0 0 0	302WAT
2	G107S I685S I800 DPACK Metho EPA-M	33042 33171 33124 0 d Litera ethods 1	NA 19-3550 NA NA sture Refe	cal Analysis o	of Water & Wastes,	02-418.1 20-D21sV	10-AUG-93 114 17-AUG-93 163 16-AUG-93 220	DFF 6 LJH 0 JB	0 0 0	302WAT
<u>R</u> 2	G107S I685S I800 DPACK Metho EPA-M EPA-T	33042 33171 33124 0 d Litera ethods 1	NA 19-3550 NA NA sture Refe or Chemic	cal Analysis o Evaluating Sol	id Waste, 3rd ed,	02-418.1 20-D21sV 1984. Nov. 1986	10-AUG-93 114 17-AUG-93 163 16-AUG-93 220	DFF 6 LJH 0 JB	0 0 0	302WAT
	G107S I685S I800 DPACK Metho EPA-M EPA-T	33042 33171 33124 0 d Litera ethods 1	NA 19-3550 NA NA sture Refe or Chemic	cal Analysis o Evaluating Sol		02-418.1 20-D21sV 1984. Nov. 1986	10-AUG-93 114 17-AUG-93 163 16-AUG-93 220	DFF 6 LJH 0 JB	0 0 0	302WAT
2 2	G107S I685S I800 DPACK Metho EPA-M EPA-T USEPA	33042 33171 33124 0 d Litera ethods 1	NA 19-3550 NA NA eture Refe for Chemic nods for E	cal Analysis o Evaluating Sol	id Waste, 3rd ed,	02-418.1 20-D21sV 1984. Nov. 1986	10-AUG-93 114 17-AUG-93 163 16-AUG-93 220 02-SEP-93 170	DFF 6 LJH 0 JB 0 SLG	0 0 0	302WAT
2 2 2	G107S I685S I800 DPACK Metho EPA-M EPA-T USEPA	33042 33171 33124 0 d Litera ethods 1 est Meth CLP SOW	NA 19-3550 NA NA eture Refe for Chemic nods for E	cal Analysis o Evaluating Sol	id Waste, 3rd ed,	02-418.1 20-D21SV 1984. Nov. 1986 . 2/88	10-AUG-93 114 17-AUG-93 163 16-AUG-93 220 02-SEP-93 170	DFF 6 LJH 0 JB 0 SLG	0 0 0 0	302WAT 004WAT
2 2 2	G107S I685S I800 DPACK Metho EPA-M EPA-T USEPA PLE ID:	33042 33171 33124 0 d Litera ethods 1 est Meth CLP SOW 02-SB1	NA 19-3550 NA NA Sture Refe for Chemic sods for E I for Orga	cal Analysis o Evaluating Sol	id Waste, 3rd ed,	02-418.1 20-D21sV 1984. Nov. 1986 2/88	10-AUG-93 114 17-AUG-93 163 16-AUG-93 220 02-SEP-93 170 LSG SAMPL	DFF 6 LJH 10 JB 0 SLG E NO:	0 0 0 0 0 но246699	302WAT 004WAT 7287GC 302WAT
R 2 9 0	G107S I685S I800 DPACK Metho EPA-M EPA-T USEPA PLE ID: G107S	33042 33171 33124 0 d Litera ethods 1 est Meth CLP SOW 02-SB1 33063 33171	NA 19-3550 NA NA Sture Reference For Chemic Lods for E	cal Analysis o Evaluating Sol	id Waste, 3rd ed,	02-418.1 20-D21sV 1984. Nov. 1986 . 2/88	10-AUG-93 114 17-AUG-93 163 16-AUG-93 220 02-SEP-93 170 LSG SAMPL	DFF 6 LJH 0 JB 0 SLG E NO:	0 0 0 0 0 H0246699	302WAT 004WAT

02 EPA-Methods for Chemical Analysis of Water & Wastes, 1984.



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

				CAMDLE DO	REPARATION				MPIF A	NALYSIS	
	TEST	2250	LR-	SAMPLE PA	REPARATION	LR-		JA.	11 66 7	ANLS	
1 14	TEST CODE	PREP BATCH	METHOD	DATE/TIME	ANALYST		OD DATE/	TIME	ANAL		INSTRUMENT
LN			ME11100								
LR	Metho	d Litera	ture Refe	erence							
19	EPA-T	est Meth	ods for E	Evaluating Soli	id Waste, 3rd ed,	Nov. 1986					
20	USEPA	CLP SOW	for Orga	anîc Analysis,	Multi-Conc., Rev	. 2/88					
								CC CAMOL	- 110-	но246700	
SAM	PLE ID:	02-SB1	9-C-A				L	SG SAMPLI	. NU:	NU2407UU	
1	G107S	33063	NA			19-8	020 12-AU	G-93 165	DFF	0	7287GC
2	16855		19-3550			02-4	18.1 17-AU	G-93 164	5 LJH	0	302WAT
3	1800	33125	NA			20-D	21SV 16-AU	G-93 220) JB	0	004WAT
4	DPACK	0	NA				02-SE	P-93 170	SLG	0	
LR			ture Refe								
02				•	f Water & Wastes,						
19					id Waste, 3rd ed,						
20	USEPA	CLP SOW	for Orga	anic Analysis,	Multi-Conc., Rev	. 2/88					
CAM	DIE 10.	02-SB2	7-4-4			_	1	SG SAMPL	E NO:	н0246701	
SAM	PLE ID.	02 382					_				
1	G107S	33063	NA		•	19-8	020 12-AU	G-93 173	2 DFF	0	7287GC
2	16858	33171	19-3550			02-4	18.1 18-AU	G-93 930	LJH	0	302WAT
3	1800	33125	NA			20-D	21SV 16-AU	G- 93 220	O JB	0	004WAT
4	DPACK	0	NA				02-SE	P-93 170	O SLG	0	
<u>LR</u>			ture Refe		£ 11-4 9 114	100/					
02 19					f Water & Wastes, id Waste, 3rd ed,						
20				-	Multi-Conc., Rev						
20	USLFA	CL: JUR	o. orge	attio miderata,		,					

SAMPLE ID: 02-SB23-B-A

LSG SAMPLE NO: H0246702



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

	TEST	PREP	LR-	JAN LL P	REPARATION	LR-		J		ANLS	
N	CODE	BATCH	METHOD	DATE/TIME	ANALYST	METHOD	DATE/TIME		ANALYS		INSTRUMEN
•	G1.07S	33111	NA			19-8020	12-AUG-93	1845	DFF	0	7287GC
	1685s	33171	19-3550			02-418.1	18-AUG-93	932	LJH	0	302WAT
	1800	33125	NA		•	20-D21sV	16-AUG-93	2200	JB	0	004WAT
	DPACK	0	NA				02-SEP-93	1700	SLG	0	
2	Metho	d Litera	ature Refe	erence							
2	EPA-M	ethods 1	for Chemic	cal Analysis o	f Water & Wastes,	1984.					
7				-	id Waste, 3rd ed,						
}	USEPA	CLP SOL	/ for Orga	enic Analysis,	Multi-Conc., Rev	_ 2/88					
41	MPLE ID:	02-SB2	23-C-A				LSG S	AMPLE	NO: H	0246703	
	G107S	33063	NA			19-8020	12-AUG-93	1921	DFF	0	7287GC
	1685s	33171	19-3550			02-418.1	18-AUG-93	936	LJH	0	302WAT
	1800	33125	NA			20-D21SV	16-AUG-93	2200	JB	0	004WAT
	DPACK	0	NA				02-SEP-93	1700	SLG	0	
2	Metho	d Litera	ture Refe	erence							
2					f Water & Wastes,						
)				-	id Waste, 3rd ed,						
)	USEPA	CLP SOL	I for Orga	nic Analysis,	Multi-Conc., Rev.	. 2/88					
	IPLE ID:	02-FD2	23-C-A				LSG S/	AMPLE	NO: H	0246704	
41		33063	NA			19-8020	12-AUG-93	1921	DFF	0	7287GC
4.0	G107S		19-3550			02-418.1	18-AUG-93	947	LJH	0	302WAT
4/	G107S 1685S	33171	., 5550				44 4110 07	2200		•	004445
AM		33171 33125	NA			20-D21SV	10-AUG-A2	2200	JB	0	004WAT

- 02 EPA-Methods for Chemical Analysis of Water & Wastes, 1984.
- 19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986



19-8020 13-AUG-93 1621 DFF

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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

----- SAMPLE PREPARATION ----- ---- SAMPLE ANALYSIS ------LR-TEST PREP LR-ANALYST BATCH INSTRUMENT METHOD DATE/TIME LN CODE BATCH METHOD DATE/TIME ANALYST Method Literature Reference USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88 LSG SAMPLE NO: H0246705 SAMPLE ID: 02-SB22-A-A 7287GC G107S 33112 NA 19-8020 13-AUG-93 1509 DFF 302WAT 0 02-418.1 18-AUG-93 950 LJH 1685S 33171 19-3550 2 0 004WAT 20-D21SV 16-AUG-93 2200 JB 1800 33125 NA 02-SEP-93 1700 SLG DPACK 0 NA LR Method Literature Reference EPA-Methods for Chemical Analysis of Water & Wastes, 1984. 02 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88 LSG SAMPLE NO: H0246706 SAMPLE ID: 02-SB22-B-A 19-8020 13-AUG-93 1545 DFF 7287GC G107S 33112 NA 1 02-418.1 18-AUG-93 953 LJH **302WAT** 19-3550 2 1685S 33171 0 004WAT 20-D21SV 16-AUG-93 2200 JB 1800 33125 3 NA 02-SEP-93 1700 SLG DPACK 0 NA LR Method Literature Reference EPA-Methods for Chemical Analysis of Water & Wastes, 1984. EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986 19 20 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88 SAMPLE ID: 02-SB22-C-A LSG SAMPLE NO: H0246707

G107S 33112 NA

7287GC



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

SAMPLE PREPARATION							- SAM	PLE ANALY	SIS			
	TEST	PREP	LR-			LR-					ANLS	
LN	CODE	BATCH	METHOD	DATE/TIME	ANALYST	METH	OC	DATE/TIME		ANALYST	BATCH	INSTRUMENT
2	1685s	33171	19-3550			02-4	18.1	18-AUG-93	955	LJH	0	302WAT
3	1800	33125	NA			20-D	21sv	16-AUG-93	2200	JB	0	004WAT
4	DPACK	0	NA					02-SEP-93	1700	SLG	0	

LR Method Literature Reference

- 02 EPA-Methods for Chemical Analysis of Water & Wastes, 1984.
- 19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986
- 20 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88



1685S Petroleum Hydrocarbons

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL REPORT LABORATORY CONTROL SAMPLE RECOVERY

PERCENT TEST RECOVERY CODE DETERMINATION LSG SAMPLE NO: H0247658 BATCH: 33042 SAMPLE ID: Lab Control Sample G107S BTEX Package Done Level C BTEX data package LSG SAMPLE NO: H0247692 BATCH: 33063 SAMPLE ID: Lab Control Sample G107S BTEX Package Done Level C BTEX data package LSG SAMPLE NO: H0247774 BATCH: 33111 SAMPLE ID: Lab Control Sample G107S BTEX Package Done -Level C BTEX data package LSG SAMPLE NO: H0247776 BATCH: 33112 SAMPLE ID: Lab Control Sample G107S BTEX Package Done Level C BTEX data package LSG SAMPLE NO: H0247864 BATCH: 33171 SAMPLE ID: Lab Control Sample 103.6 1685S Petroleum Hydrocarbons LSG SAMPLE NO: H0249222 BATCH: 33386 SAMPLE ID: Lab Control Sample

91.0



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QUALITY CONTROL REPORT METHOD BLANK DATA

	TEST CODE	Determination	RESULT	UNITS	.
BATCH: 33041	SAMPLE	ID: Method Blank	LSG SAMPLE	NO: H0247657	
	OSTSC	TCL - BNA + CLP Data Package - Soil Data Package - BNA	Done	ug/kg	
BATCH: 33042	SAMPLE	ID: Method Blank	LSG SAMPLE	NO: H0247659	
	G107S	BTEX Package Level C BTEX data package	Done		
ватсн: 33063	SAMPLE	ID: Method Blank	LSG SAMPLE	NO: H0247693	
	G107S	BTEX Package Level C BTEX data package	Done	_	
BATCH: 33111	SAMPLE	ID: Method Blank	LSG SAMPLE	NO: H0247775	
	G107S	BTEX Package Level C BTEX data package	Done		
BATCH: 33112	SAMPLE	ID: Method Blank	LSG SAMPLE	NO: H0247777	
	G107S	BTEX Package Level C BTEX data package	Done		
BATCH: 33124	SAMPLE	ID: Method Blank	LSG SAMPLE	NO: H0247792	
	1800	CLP - percent moisture	< 0.1	%	
BATCH: 33125	SAMPLE	ID: Method Blank	LSG SAMPLE	NO: H0247793	
	1800	CLP - percent moisture	< 0.1	%	
BATCH: 33171	SAMPLE	ID: Method Blank		NO: H0247865	
	1685\$	Petroleum Hydrocarbons	< 20	mg/kg NO: H0249223	
BATCH: 33386		ID: Method Blank	< 20	mg/kg	
	1685s	Petroleum Hydrocarbons		-	

BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT BTEX DATA PACKAGE ELL1, PKG1

PACE, INCORPORATED HOUSTON ANALYTICAL LABORATORY SEPTEMBER 2, 1993

CASE COMMENTS BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT ELL1, PKG1 MATRIX: SOIL

- 1. This data package covers water samples received from August 5 to August 11. Refer to the enclosed list of samples and corresponding client identifications.
- 2. The samples were analyzed by the SW-846 GC method 8020 for BTEX.
- 3. See enclosed list of flag descriptions.
- 4. The data was reduced and input manually onto computer generated forms to simulate a CLP-type package for BTEX per the client's request. The results are reported on a dry weight basis and provide data as required under the Level C HAZWRAP protocols.
- 5. The primary analyses for BTEX was performed on a RTX-502.2 (0.53 mm) capillary column. The secondary column was packed column 5% SP-1200/1.75% Bentone 34 (1/8 in). All positive hits were reported from the primary column analyses.
- 6. Samples failing surrogate recovery limits were reanalyzed on the primary column to confirm matrix interference. These outliers were indicated on Form 2. There were two exceptions:
 1) Sample 02SB21BA/H245828 was not run twice due to analyst oversight; 2) Sample 02SB23BA/H246702 was not rerun on the primary column, but was run on the secondary column to confirm matrix interference with the surrogate TFT (alpha, alpha, alpha-Trifluorotoluene).
- 7. On Form 3, the matrix spike and matrix spike duplicate anomalies are indicated. These anomalies do not effect the validity of the sample data. The recovery amounts recorded on Form 3 were corrected for amounts present in the original sample.
- 8. The continuing calibration standards analyzed on 08/10/93 at 0226 and 08/12/93 at 0655 were not associated with any sample analyses and were followed by new five-point calibrations.

ELLINGTON AFB TRACKING CHART

CASE I.D.: ELL1 SDG: PKG1 MATRIX: SOIL

PACE NUMBER	CLIENT I.D.	DATE SXD	DATE RCVD	PERCENT MOISTURE	ANALYSES REQUIRED
H245825		8/5	8/5	26	BTEX, TPH
H245826	02-SB21-A-A MS			26	
H245827	02-SB21-A-A MSD			27	
H245828	02-SB21-B-A			28	
H245829	02-FD21-B-A			28	
H245830	02-SB21-C-A			19	
H245831	02-SB16-A-A			25	
H245832	02-SB16-C-A			19	
H245833	02-SB20-A-A			24	
H245834	02-SB20-C-A			18	
H246033	02-SB18-A-A	8/6	8/6	20	
H246034	02-SB18-C-A			19	
H246035	02-SB17-A-A			26	
H246036	02-SB17-B-A	İ		28	
H246037	02-SB17-C-A			20	
H246699	02-SB19-B-A	8/11	8/11	26	
H246700	02-SB19-C-A	1	1	21	
H246701	02-SB23-A-A	ĺ	İ	6.3	
H246702	02-SB23-B-A	ĺ	İ	28	
H246703	02-SB23-C-A		İ	17	
H246704	02-FD23-C-A	1		15	
H246705	02-SB22-A-A	İ	İ	27	
H246706	02-SB22-B-A			28	
H246707	02-SB22-C-A		1	20	

USEPA Contract Laboratory Program (CLP) Data Reporting Qualifiers

(from Statement of Work for Organics Analysis, Rev. 3/90)

- A This flag indicates that a TIC is a suspected aldol-condensation product.
- B This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.
- C This flag applies to pesticide results where the <u>identification</u> has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do <u>not</u> apply this flag; 'instead use a laboratory-defined flag, discussed below.
- D This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is reanalyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and <u>all</u> concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.
- E This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and reanalyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form 1. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of <u>each peak</u> should be considered separately, for example, a filuted analysis is not required for total xylenes unless the oncentration of either peak separately exceeds 200 ug/L.
- Indicates an estimate value. This flag is used either when stimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data ndicate the presence of a compound that meets the identification riteria but the result is less than the sample quantitation imit but greater than zero. For example, if the sample uantitation limit is 10 ug/L, but a concentration of 3 ug/L is alculated, report it as 3 J. The sample quantitation limit must e adjusted for dilution as discussed for the U flag.

- N Indicates the presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X.) The lower of the two values is reported on Form I and flagged with a *p.*
- U Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$(330 \text{ U}) \times \text{df}$$
, where D = $100 - \frac{1}{2} \text{ moisture}$ and df = dilution factor

For example, at 24% moisture,
$$D = \frac{100 - 24}{100} = 0.76$$

$$(330 \text{ U}) \times 10 = 4300 \text{ U}$$
 rounded to the appropriate number of significant figures

For soil samples subjected to GPC cleanup procedures, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of Cleanup. However, if a sample extract cannot be concentrated to the specified volume, this fact must be accounted for in reporting the sample quantitation limit.

X - Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG Narrative. Begin by using "X." If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A," "B," and "D" flags for some sample. The laboratory-defined flags are limited to the letters "X," "Y," and "Z."

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

CLIENT SAMPLE NO.

02FD21BA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245829

Lab File ID: 013F0101.D

Sample wt/vol: 5 (g/mL) g

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 28

Date Analyzed: 08/09/93

-GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CLIENT SAMPLE NO.

02FD23CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246704

Sample wt/vol: 5 (g/mL) g

Lab File ID: 013F0101.D

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 15

Date Analyzed: 08/12/93

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

71-43-2Benzene	5.0	T T
108-88-3Toluene	5.0	U
100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0	บ บ
•		-

0000018

1E BTEX ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

02SB16AA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245831

Sample wt/vol: 5 (g/mL) g

Lab File ID: 015F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 25

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0	U
108-88-3Toluene	33	
100-41-4Ethylbenzene	32	
1330-20-7Xylene (Total)	21	
•		

P000019

1E BTEX ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

02SB16AARE

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245831RE

Sample wt/vol: 5 (g/mL) g

Lab File ID: 017F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 25

Date Analyzed: 08/11/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene	5.0 51 50	ŭ
1330-20-7Xylene (Total)	61	

0000020

1E BTEX ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

02SB16CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245832

Sample wt/vol: 5 (g/mL) g

Lab File ID: 016F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 19

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0	U
1330-20-/xylene (Total)	5.0	U

CLIENT SAMPLE NO.

02SB17AA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246035

Sample wt/vol: 5 (g/mL) g

Lab File ID: 024F0101.D

Date Received: 08/06/93

% Moisture: 26

Level: (low/med) LOW

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0	
--	-------------------	--

CLIENT SAMPLE NO.

02SB17BA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1 SDG No.: PKG1

Matrix: (soil/water) SOIL Lab Sample ID: H246036

Sample wt/vol: 5 (g/mL) g Lab File ID: 0250101.D

Level: (low/med) LOW Date Received: 08/06/93

% Moisture: 28
Date Analyzed: 08/10/93

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

71-43-2Benzene 108-88-3Toluene	5.0 5.0	U
100-41-4Ethylbenzene	5.0	U
1330-20-7Xylene (Total)	5.0	U

CLIENT SAMPLE NO.

02SB17BARE

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246036RE

Sample wt/vol: 5 (g/mL) g

Lab File ID: 019F0101.D

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: 28

Date Analyzed: 08/11/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.6 5.0 5.0	

CLIENT SAMPLE NO.

02SB17CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246037

Sample wt/vol: 5 (g/mL) g Lab File ID: 026F0101.D

Date Received: 08/06/93

Level: (low/med) LOW

Date Analyzed: 08/10/93

% Moisture: 20

_GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 U
--	-------

CLIENT SAMPLE NO.

02SB18AA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246033

Sample wt/vol: 5 (g/mL) g

Lab File ID: 022F0101.D

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: 20

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0 5.0	U
•		Í

CLIENT SAMPLE NO.

02SB18CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246034

Sample wt/vol: 5 (g/mL) g

Lab File ID: 023F0101.D

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: 19

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0	เบ
108-88-3Toluene	5.0	U
100-41-4Ethylbenzene	5.0	U
1330-20-7Xylene (Total)	5.0	บ

CLIENT SAMPLE NO.

02SB19BA

Lab Name: PACE, INC.

Contract: ELLINGTON

No.: ELL1 SDG No.: PKG1

Lab Code: HOUSTON Case No.: ELL1 SDG No.: PKG1

Matrix: (soil/water) SOIL Lab Sample ID: H246699

Sample wt/vol: 5 (g/mL) g Lab File ID: 008F0101.D

Level: (low/med) LOW Date Received: 08/11/93

% Moisture: 26 Date Analyzed: 08/12/93

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene	5.0 5.0	U
1330-20-7Xylene (Total)	5.0	<u>u</u>

CLIENT SAMPLE NO.

02SB19CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246700

Sample wt/vol: 5 (g/mL) g

Lab File ID: 009F0101.D

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 21

Date Analyzed: 08/12/93

-GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0 5.0	U

CLIENT SAMPLE NO.

02SB20AA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON

Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245833

Sample wt/vol: 5 (g/mL) g

Lab File ID: 017F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 24

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 7.9 5.0	
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CLIENT SAMPLE NO.

02SB20AARE

Lab Name: PACE, INC.

Contract: ELLINGTON

Matrix: (soil/water) SOIL

Lab Sample ID: H245833RE

SDG No.: PKG1

Sample wt/vol: 5 (g/mL) g

Lab File ID: 018F0101.0

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 24

Date Analyzed: 08/11/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Lab Code: HOUSTON Case No.: ELL1

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0 13 13 5.0	U

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1E BTEX ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

02SB20CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245834

Sample wt/vol: 5 (g/mL) g Lab File ID: 018F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 18

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0	U
1330-20-/xylene (Total)	5.0	U

CLIENT SAMPLE NO.

02SB21AA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245825

Sample wt/vol: 5 (g/mL) g

Lab File ID: 008F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 26

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0 5.0 8.8 5.0	
1330-20-/Xylene (local)		

CLIENT SAMPLE NO.

02SB21AARE

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245825RE

Sample wt/vol: 5 (g/mL) g

Lab File ID: 013F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 26

Date Analyzed: 08/11/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

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CLIENT SAMPLE NO.

02SB21BA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245828

Sample wt/vol: 5 (g/mL) g

Lab File ID: 012F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 28

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

1330-20-7Xylene (Total)5.0 U

CLIENT SAMPLE NO.

02SB21CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245830

Sample wt/vol: 5 (g/mL) g

Lab File ID: 014F0101.D

Date Received: 08/05/93

Level: (low/med) LOW

Date Analyzed: 08/09/93

% Moisture: 19

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0 5.0	U
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CLIENT SAMPLE NO.

02SB22AA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246705

Sample wt/vol: 5 (g/mL) g Lab File ID: 006F0101.D

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 27

Date Analyzed: 08/13/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0	U
108-88-3Toluene	5.0	U
100-41-4Ethylbenzene	5.0	ַ ע
1330-20-7Xylene (Total)	5.0	U
•		

CLIENT SAMPLE NO.

02SB22BA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

COMPOUND

Lab Sample ID: H246706

Sample wt/vol: 5 (g/mL) g Lab File ID: 007F0101.D

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 28

Date Analyzed: 08/13/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0 5.0 5.0 5.0	บ

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1E BTEX ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

02SB22CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246707

Lab File ID: 008F0101.D

Sample wt/vol: 5 (g/mL) g

Date Received: 08/11/93

Level: (low/med) LOW

% Moisture: 20

Date Analyzed: 08/13/93

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0 5.0	บ บ
•		

CLIENT SAMPLE NO.

02SB23AA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246701

Sample wt/vol: 5 (g/mL) g

Lab File ID: 010F0101.D

Level: (low/med) LOW

Date Received: 08/11/93

Date Analyzed: 08/12/93

% Moisture: 6.3

CAS NO.

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0 5.0	U U U
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CLIENT SAMPLE NO.

02SB23BA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246702

Sample wt/vol: 5 (g/mL) g

Lab File ID: 011F0101.D

Date Received: 08/11/93

% Moisture: 28

Level: (low/med) LOW

Date Analyzed: 08/12/93

_GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CLIENT SAMPLE NO.

02SB23CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246703

Sample wt/vol: 5 (g/mL) g

Lab File ID: 012F0101.D

Date Received: 08/11/93

Level: (low/med) LOW

Date Analyzed: 08/12/93

% Moisture: 17

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0 5.0 5.0 5.0	U U U U

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1E BTEX ORGANICS ANALYSIS DATA SHEET

BLANK SAMPLE NO.

VBLK1

Lab Name: PACE, INC.

Contract: ELLINGTON

SDG No.: PKG1

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Lab Code: HOUSTON Case No.: ELL1

Matrix: (soil/water) SOIL Lab Sample ID: H247659BLK

Sample wt/vol: 5 (g/mL) g Lab File ID: 007F0101.D

Level: (low/med) LOW Date Received: 08/09/93

% Moisture: not dec. Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene	5.0 5.0 5.0 5.0	<u>U</u>
1330-20-7Xylene (Total)	5.0	U

BLANK SAMPLE NO.

VBLK2

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON

Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H247626BLK

Sample wt/vol: 5 (g/mL) g Lab File ID: 009F0101.D

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: not dec.

Date Analyzed: 08/11/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0 5.0 5.0 5.0	U
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1E BTEX ORGANICS ANALYSIS DATA SHEET

BLANK SAMPLE NO.

VBLK4

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H247693BLK

Sample wt/vol: 5 (g/mL) g Lab File ID: 004F0101.D

Level: (low/med) LOW

Date Received: 08/12/93

% Moisture: not dec.

Date Analyzed: 08/12/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene	5.0 5.0 5.0	ט
1330-20-7Xylene (Total)	5.0	Ŭ

BLANK SAMPLE NO.

VBLK5

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H247777BLK

Sample wt/vol: 5 (g/mL) g

Lab File ID: 003F0101.D

Level: (low/med) LOW

Date Received: 08/13/93

% Moisture: not dec.

Date Analyzed: 08/13/93

CAS NO.

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0 U 5.0 U 5.0 U 5.0 U
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1E BTEX ORGANICS ANALYSIS DATA SHEET

BLANK SAMPLE NO.

VBLK3

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H247713BLK

Sample wt/vol: 5 (g/mL) g

Lab File ID: B048012

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: not dec.

Date Analyzed: 08/11/93

GC Column: SP1200 ID: 1/8 (in)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0 5.0 5.0 5.0 5.0	U
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BLANK SAMPLE NO.

VBLK6

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H247775BLK

Sample wt/vol: 5 (g/mL) g Lab File ID: B048009

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: not dec.

Date Analyzed: 08/14/93

GC Column: SP1200 ID: 1/8 (in) Dilution Factor: 1.0

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

1330-20-7Xylene (Total)5.0 0	71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0 5.0	U
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MS SAMPLE NO.

02SB21AAMS

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245826MS

Sample wt/vol: 5 (g/mL) g

Lab File ID: 009F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 26

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

·		
71-43-2Benzene	25	
108-88-3Toluene	15	
100-41-4Ethylbenzene	29	
1330-20-7Xylene (Total)	69	

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1E BTEX ORGANICS ANALYSIS DATA SHEET

MS SAMPLE NO.

02SB21AAMSRE

Lab Name: PACE, INC.

Lab Code: HOUSTON Case No.: ELL1

Contract: ELLINGTON

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245826MSRE

Sample wt/vol: 5 (g/mL) g

Lab File ID: 014F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 26

Date Analyzed: 08/11/93

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND

(ug/L or ug/Kg) UG/KG

73 43 2 Pangana	73	
71-43-2Benzene 108-88-3Toluene	28	
100-41-4Ethylbenzene	34	
1330-20-7Xylene (Total)	72	

MSD SAMPLE NO.

02SB21AAMSDRE

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245827MSDRE

Sample wt/vol: 5 (g/mL) g Lab File ID: 015F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 27

Date Analyzed: 08/11/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene	37	
108-88-3Toluene	30	
100-41-4Ethylbenzene	36	
1330-20-7Xylene (Total)	69	
•		

BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT TPH DATA PACKAGE ELL1, PKG2

PACE, INCORPORATED HOUSTON ANALYTICAL LABORATORY SEPTEMBER 13, 1993

TPH CASE COMMENTS BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT ELL1, PKG2 MATRIX: SOIL

- 1. This data package covers water samples received from August 5 to August 13. Refer to the enclosed list of samples and corresponding client identifications.
- 2. The samples were analyzed according to the EPA method 418.1 and reported on a dry weight basis.
- 3. The data was reported via the PACE, INC. LIMS system, which includes all the QA/QC data requirments for Level C HAZWRAP protocols.
- 4. All the TPH were analyzed within 28 days. This includes the reanalyses for the following samples: 02-RB01-A-A (H245839), 02-FB01-A-A (H245840), 01-FB02-A-A (H245841), and 02-RB02-A-A (H246039).

ELLINGTON AFB TRACKING CHART

CASE I.D.:	ELL1
SDG:	PKG2
MATRIX:	SOIL

PACE NUMBER	CLIENT I.D.		DATE RCVD
H245835 H245836	02-SB16-B-A 02-SB20-B-A	8/5	8/5
H245837	02-SB20-B-A MS		
H245838	02-SB20-B-A MSD		
H245839	02-RB01-A-A	I	
H245840	02-RB01-A-A 02-FB01-A-A	ĺ	
H245841	02-FB02-A-A		
H245842	02-FB02-A-A 02-TB01-A-A	- [
H245843	02-TB01-A-A 02-TB02-A-A	- 1	
H246038	02-SB18-B-A	8/6	8/6
	02-RB02-A-A	1	1
H246039	02-SB15-A-A	İ	
H246040	-		
H246041	02-SB15-B-A	1	
H246042	02-SB15-C-A	i	
H246043	02-FD15-C-A		ĺ
H246044	02-TB03-A-A		0/11
H246697	02-SB19-A-A	8/11	8/11
H246698	02-RB03-A-A	1	
H246708	02-TB04-A]	
H246770	02-SB18-B-A MS	8/6	8/6
H246771	02-SB18-B-A-MSD	<u> </u>	
H247049	02-SB26-B-A	8/13	8/14
H247050	02-RB05-A-A	1	
H247051	02-TB06-A-A	l	1



September 14, 1993 Report No.: 00027123

Section A Page 1

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB16-B-A

LSG SAMPLE NO: H0245835

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

DATE RECEIVED: 05-AUG-93

APPROVED BY: D Meyer

LN	TEST CODE	DETERMINATION	RESULT	UNIT
			·	
1	OVTSC	TCL - VOA + CLP Data Package - Soil		
		Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil		
		Data Package - BNA	Done	ug/kg
3	1800	CLP - percent moisture	27	*
4	DPACK	CLP Data Package Deliverable	Done	
5	16858	Petroleum Hydrocarbons	41	mg/kg
6	1801	CLP pH for Organics Extraction	6.52	-

COMMENTS: Results reported on a dry weight basis.

Case: ELL1, SDG: PKG2 consists of PACE sample numbers:

H245835-H245843; H246038-H246044; H246697-H246698; H246708; H247049-H247051

The initial calibration verification (ICV) for TPH is as follows:

Date/Time run Percent Recovery

8/18/93 1404 97% 8/25/93 1042 91%

The continuing calibrations (CCV) for TPH are as follows:

Date/Time run Percent Recovery

8/18/93 1445 100% 8/25/93 1055 103% 9/3/93 0805 100%



September 14, 1993 Report No.: 00027123 Section A Page 2

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB20-B-A

LSG SAMPLE NO: H0245836

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

DATE RECEIVED:

05-AUG-93

APPROVED BY: D Meyer

LN	TEST	DETERMINATION	RESULT	UNITS
1	OVTSC	TCL - VOA + CLP Data Package - Soil		
		Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil		
		Data Package - BNA	Done	ug/kg
3	1800	CLP - percent moisture	25	*
4	DPACK	CLP Data Package Deliverable	Done	
5	1685s	Petroleum Hydrocarbons	< 27	mg/kg
6	1801	CLP pH for Organics Extraction	6.55	

COMMENTS: Results reported on a dry weight basis.



September 14, 1993 Report No.: 00027123 Section A Page 3

LSG CLIENT NO: 0718 0001 PACE PROJECT: HO7180001

PACE CLIENT: 620438

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB20-B-A MS

LSG SAMPLE NO: H0245837

1685s

P.O. NO.: 1K94BC

DATE SAMPLED: 05-AUG-93

DATE RECEIVED: 05-AUG-93

mg/kg

APPROVED BY: D Meyer

TEST LN CODE DETERMINATION RESULT UNITS OSTSC TCL - BNA + CLP Data Package - Soil ug/kg Data Package - BNA Done 26 % 3 1800 CLP - percent moisture 4 DPACK CLP Data Package Deliverable Done 510

COMMENTS: Ms recovery Petroleum Hydrocarbons = 100.0 % . Results reported on a dry weight basis.

Petroleum Hydrocarbons



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB20-B-A MSD

LSG SAMPLE NO: H0245838

P.O. NO.: 1K94BC

PACE PROJECT: H07180001 PACE CLIENT: 620438

LSG CLIENT NO: 0718 0001

DATE SAMPLED: 05-AUG-93

DATE RECEIVED:

05-AUG-93

APPROVED BY:

D Meyer

 <u>ln</u>	TEST CODE	DETERMINATION	RESULT	UNITS
2	OSTSC	TCL - BNA + CLP Data Package - Soil		
		Data Package - BNA	Done	ug/kg
3	1800	CLP - percent moisture	27	%
4	DPACK	CLP Data Package Deliverable	Done	
5	1685s	Petroleum Hydrocarbons	510	mg/kg

COMMENTS: % Moisture Relative Percent Difference = 7.6 .

Petroleum Hydrocarhons Matrix Spike Duplicate recovery = 97.4 %; RPD = 2.7 .

Results reported on a dry weight basis.



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-RB01-A-A

LSG SAMPLE NO: H0245839

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

DATE RECEIVED:

05-AUG-93

APPROVED BY: D Meyer

 			• • • • • • • • • • • • • • • • • • • •	
<u>ln</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTSC	TCL - VOA + CLP Data Package - Soil		
		Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil		
		Data Package - BNA	Done	ug/kg
4	DPACK	CLP Data Package Deliverable	Done	
5	16858	Petroleum Hydrocarbons	< 20	mg/kg
6	1801	CLP pH for Organics Extraction	6.35	

COMMENTS:

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661

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September 14, 1993 Report No.: 00027123 Section A Page 6

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-FB01-A-A

LSG SAMPLE NO: H0245840

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

DATE RECEIVED: 05-AUG-93 APPROVED BY: D Meyer

	<u>ln</u>	TEST CODE	DETERMINATION	RESULT	UNITS
	1	OVTSC	TCL - VOA + CLP Data Package - Soil		
			Data Package - VOA	Done	ug/kg
	2	OSTSC	TCL - BNA + CLP Data Package - Soil		
			Data Package - BNA	Done	ug/kg
	4	DPACK	CLP Data Package Deliverable	Done	_
!	5	1685s	Petroleum Hydrocarbons	< 20	mg/kg
(6	1801	CLP pH for Organics Extraction	6.05	

COMMENTS:



September 14, 1993

Report No.: 00027123

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-FB02-A-A

LSG SAMPLE NO: H0245841

P.O. NO.: 1K94BC

DATE SAMPLED: 05-AUG-93

DATE RECEIVED:

05-AUG-93

APPROVED BY:

D Meyer

	<u>ln</u>	TEST CODE	DETERMINATION	RESULT	UNITS
	1	OVTSC	TCL - VOA + CLP Data Package - Soil		
			Data Package - VOA	Done	ug/kg
	2	OSTSC	TCL - BNA + CLP Data Package - Soil		
			Data Package - BNA	Done	ug/kg
•	4	DPACK	CLP Data Package Deliverable	Done	
	5	16858	Petroleum Hydrocarbons	< 20	mg/kg
	6	1801	CLP pH for Organics Extraction	7.39	

COMMENTS:

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661

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September 14, 1993 Report No.: 00027123

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-TB01-A-A

LSG SAMPLE NO: H0245842

P.O. NO.: 1K948C

PACE CLIENT: 620438

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

DATE SAMPLED: 05-AUG-93
DATE RECEIVED: 05-AUG-93

APPROVED BY: D Meyer

TEST

LN CODE

DETERMINATION

RESULT

UNITS

OVTSC

DPACK

TCL - VOA + CLP Data Package - Soil

Data Package - VOA

CLP Data Package Deliverable

Done Done ug/kg

COMMENTS:

1



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LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-TB02-A-A

LSG SAMPLE NO: H0245843

P.O. NO.: 1K94BC

DATE SAMPLED: 05-AUG-93

DATE RECEIVED:

05-AUG-93

APPROVED BY: D Meyer

TEST

CODE LN

DETERMINATION

RESULT

OVTSC 1

TCL - VOA + CLP Data Package - Soil

Data Package - VOA

DPACK

CLP Data Package Deliverable

Done Done ug/kg

COMMENTS:

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661

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PACE CLIENT: 620438



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LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB18-B-A

LSG SAMPLE NO: H0246038

P.O. NO.: 1K94BC

DATE SAMPLED: 06-AUG-93

DATE RECEIVED: 06-AUG-93

APPROVED BY: D Meyer

 LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTSC	TCL - VOA + CLP Data Package - Soil		
•	••••	Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil		
_		Data Package - BNA	Done	ug/kg
3	1800	CLP - percent moisture	21	%
4	DPACK	CLP Data Package Deliverable	Done	
5	16858	Petroleum Hydrocarbons	38	mg/kg
6	1801	CLP pH for Organics Extraction	6.76	
U	1001	oci più i ei de de de de de de de de de de de de de		

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-RB02-A-A

LSG SAMPLE NO: H0246039

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 06-AUG-93

DATE RECEIVED:

06-AUG-93

APPROVED BY: D Meyer

 <u>ln</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTSC	TCL - VOA + CLP Data Package - Soil		
		Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil		
		Data Package - BNA	Done	ug/kg
- 4	DPACK	CLP Data Package Deliverable	Done	
5	16858	Petroleum Hydrocarbons	< 20	mg/kg
6	1801	CLP pH for Organics Extraction	5.67	

COMMENTS:



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB15-A-A

LSG SAMPLE NO: H0246040

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 06-AUG-93 DATE RECEIVED: 06-AUG-93

APPROVED BY: D Meyer

UNITS DETERMINATION RESULT CODE LN 16 CLP - percent moisture 3 1800 Done DPACK CLP Data Package Deliverable 35 mg/kg 5 1685S Petroleum Hydrocarbons

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574 HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB15-B-A

LSG SAMPLE NO: H0246041

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 06-AUG-93 DATE RECEIVED:

06-AUG-93

APPROVED BY:

D Meyer

-,					
	LN	TEST CODE	DETERMINATION	RESULT	UNITS
	3	1800	CLP - percent moisture	25	*
	3 4 5	DPACK 1685S	CLP Data Package Deliverable Petroleum Hydrocarbons	Done < 27	mg/kg

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB15-C-A

LSG SAMPLE NO: H0246042

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001 PACE CLIENT: 620438

DATE SAMPLED: 06-AUG-93

DATE RECEIVED: 06-AUG-93

APPROVED BY: D Meyer

Done

49

mg/kg

TEST LN CODE DETERMINATION UNITS RESULT 3 CLP - percent moisture 19 %

4 DPACK CLP Data Package Deliverable 1685s

Petroleum Hydrocarbons

COMMENTS: Results reported on a dry weight basis.

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LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-FD15-C-A

LSG SAMPLE NO: H0246043

P.O. NO.: 1K94BC

DATE SAMPLED: 06-AUG-93

DATE RECEIVED:

06-AUG-93

APPROVED BY:

D Meyer

<u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
 -			15	%
3	1800	CLP - percent moisture		~
4	DPACK	CLP Data Package Deliverable	Done	
5	16858	Petroleum Hydrocarbons	< 24	mg/kg

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



September 14, 1993 Report No.: 00027123

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LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

LABORATORY ANALYSIS REPORT

DETERMINATION

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-TB03-A-A

LSG SAMPLE NO: H0246044

P.O. NO.: 1K94BC

1603-A-X

APPROVED E

DATE SAMPLED: 06-AUG-93
DATE RECEIVED: 06-AUG-93

APPROVED BY: D Meyer

TEST

LN CODE

......

RESULT

UNITS

4 DPACK 5 OVTCS CLP Data Package Deliverable

TCL - Volatiles in Soil

Data Package - VOA

Done

ug/kg

COMMENTS:

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB19-A-A

LSG SAMPLE NO: H0246697

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 11-AUG-93

11-AUG-93

APPROVED BY: D Meyer

DATE RECEIVED:

<u>ln</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTSC	TCL - VOA + CLP Data Package - Soil		
		Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil		
		Data Package - BNA	Done	ug/kg
3	1800	CLP - percent moisture	27	×
4	DPACK	CLP Data Package Deliverable	Done	
5	1685\$	Petroleum Hydrocarbons	< 27	mg/kg
6	1801	CLP pH for Organics Extraction	6.48	

COMMENTS: Results reported on a dry weight basis.



September 14, 1993 Report No.: 00027123

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-RB03-A-A

.. LSG SAMPLE NO: H0246698

P.O. NO.: 1K94BC

PACE CLIENT: 620438

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

DATE SAMPLED: 11-AUG-93 DATE RECEIVED:

11-AUG-93

APPROVED BY:

D Meyer

 LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTSC	TCL - VOA + CLP Data Package - Soil Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil Data Package - BNA	Done	ug/kg
4	DPACK	CLP Data Package Deliverable	Done	
5	1685s	Petroleum Hydrocarbons	< 20	mg/kg
6	1801	CLP pH for Organics Extraction	6.48	

COMMENTS:

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



September 14, 1993 Report No.: 00027123

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-TB04-A

LSG SAMPLE NO: H0246708

P.O. NO.: 1K94BC

DATE SAMPLED: 11-AUG-93

APPROVED BY: D Meyer

TEST

DETERMINATION LN CODE

RESULT

DATE RECEIVED: 11-AUG-93

1 OVTSC

DPACK

TCL - VOA + CLP Data Package - Soil

Data Package - VOA

CLP Data Package Deliverable

Done Done

ug/kg

COMMENTS:



September 14, 1993 Report No.: 00027123

LSG CLIENT NO: 0718 0001

PACE CLIENT: 620438

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB18-B-A MS

LSG SAMPLE NO: H0246770

P.O. NO.: 1K94BC

DATE SAMPLED: 06-AUG-93

DATE RECEIVED:

PACE PROJECT:

06-AUG-93

APPROVED BY:

D Meyer

H07180001

TEST

LN CODE

DETERMINATION

RESULT

UNITS

1 OVTSC

TCL - VOA + CLP Data Package - Soil

Data Package - VOA

DPACK CLP Data Package Deliverable

Done Done ug/kg

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



September 14, 1993

Report No.: 00027123

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB18-B-A MSD

LSG SAMPLE NO: H0246771

P.O. NO.: 1K94BC

DATE SAMPLED: 06-AUG-93

DATE RECEIVED: 06-AUG-93

APPROVED BY: D Meyer

TEST

<u>LN</u> CODE DETERMINATION

RESULT

UNITS

OVTSC

DPACK

TCL - VOA + CLP Data Package - Soil

Data Package - VOA

CLP Data Package Deliverable

Done Done ug/kg

COMMENTS:

1

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



September 14, 1993 Report No.: 00027123 Section A Page 22

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB26-B-A

LSG SAMPLE NO: H0247049

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 13-AUG-93

DATE RECEIVED:

14-AUG-93

APPROVED BY:

D Meyer

 				<i></i>
<u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTSC	TCL - VOA + CLP Data Package - Soil		
		Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil		
		Data Package - BNA	Done	ug/kg
3	1800	CLP - percent moisture	27	% —
4	DPACK	CLP Data Package Deliverable	Done	
5	1685S	Petroleum Hydrocarbons	< 27	mg/kg
6	1801	CLP pH for Organics Extraction	6.97	

COMMENTS: Results reported on a dry weight basis.

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900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



September 14, 1993 Report No.: 00027123 Section A Page 23

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-RB05-A-A

LSG SAMPLE NO: H0247050

P.O. NO.: 1K94BC

DATE RECEIVED: 14-AUG-93

DATE SAMPLED: 13-AUG-93

APPROVED BY:

	<u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
	1	OVTSC	TCL - VOA + CLP Data Package - Soil		
			Data Package - VOA	Done	ug/kg
	2	OSTSC	TCL - BNA + CLP Data Package - Soil		
			Data Package - BNA	Done	ug/kg
-	4	DPACK	CLP Data Package Deliverable	Done	
	5	1685S	Petroleum Hydrocarbons	< 20	mg/kg
	6	1801	CLP pH for Organics Extraction	8.20	

COMMENTS:

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-TB06-A-A

LSG SAMPLE NO: H0247051

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 13-AUG-93

DATE RECEIVED: 14-AUG-93

APPROVED BY: D Meyer

TEST

DPACK

<u>ln</u>

DETERMINATION

RESULT

UNITS

1 OVTSC TCL - VOA + CLP Data Package - Soil

Data Package - VOA

CLP Data Package Deliverable

Done Done ug/kg

COMMENTS:

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



September 14, 1993 Report No.: 00027123 Section B Page 1

QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

	TEST	PREP	LR-			LR-				ANLS	
N 	CODE	BATCH	METHOD	DATE/TIME	ANALYST	METHOD	DATE/TIME		ANAL	YST BATCH	INSTRUMEN
AM	PLE ID:	02-SB	16-B-A				LSG SA	MPLE	NO:	но245835	
	OVTSC	0	NA			20-CLP	15-AUG-93	1852	MSH	0	GCMSO
	OSTSC	32942	20-CLP	09-AUG-93 12	200 RE	20-CLPSW	20-AUG-93	1440	ASP	0	GCMSS
	1800	33124	NA			20-D21SV	16-AUG-93	2200	JB	0	004WAT
	DPACK	0	NA				10-SEP-93	1700	SLG	0	
	1685\$	33193	19-3550			02-418.1	18-AUG-93	1407	LJH	0	302WAT
	1801	33007	NA			20-D21SV	11-AUG-93	1200	SS	0	111WAT
<u>R</u> 2 9	EPA-M	ethods est Meti	hods for E	cal Analysis of Evaluating Sol	of Water & Wastes, lid Waste, 3rd ed, , Multi-Conc., Rev.	Nov. 1986					
۱M	PLE ID:	02-SB2	20-B-A				LSG SA	MPLE	NO:	H0245836	
	OVTSC	0	NA			20-CLP	15-AUG-93	2120	MSH	0	GCMSO
	OSTSC	32942	20-CLP	09-AUG-93 12	200 RE	20-CLPSW	20-AUG-93	1523	ASP	.0	GCMSS
	1800	33124	NA			20-D21SV	16-AUG-93	2200	JB	0	004WAT
	DDACK	0	NA				10-SEP-93	1700	SLG	0	
	DPACK						10-AUC-07	1400	1.38	0	302WAT
		33193	19-3550			02-418.1	10-MUG-93	1407		-	JUERA:
	16858	33193 33007	19-3550 NA				11-AUG-93			0	111WAT
2	I685S I801 Metho EPA-M	33007 d Litera ethods 1 est Meth	NA ature Refe for Chemic nods for E	al Analysis c valuating Sol	of Water & Wastes, id Waste, 3rd ed, Multi-Conc., Rev.	20-D21sV 1984. Nov. 1986				0	
2	I685S I801 Metho EPA-M EPA-T USEPA	33007 d Litera ethods 1 est Meth CLP SON	NA ature Refe for Chemic nods for E	al Analysis c valuating Sol	id Waste, 3rd ed,	20-D21sV 1984. Nov. 1986	11-AUG-93	1200	SS	0	
	I685S I801 Metho EPA-M EPA-T USEPA	33007 d Litera ethods 1 est Meth CLP SON	NA ature Refe for Chemic nods for E J for Orga	al Analysis c valuating Sol	id Waste, 3rd ed, Multi-Conc., Rev.	20-D21sV 1984. Nov. 1986 2/88	11-AUG-93	1200	SS NO:	но245837	
M	I685S I801 Metho EPA-M EPA-T USEPA	33007 d Litera ethods 1 est Meth CLP SON	NA ature Refe for Chemic nods for E I for Orga 20-B-A MS	al Analysis of the control of the co	id Waste, 3rd ed, Multi-Conc., Rev.	20-D21sV 1984. Nov. 1986 2/88 20-CLPSW	11-AUG-93 LSG SA	1200 MPLE 1603	NO:	но245837	111WAT
M	I685S I801 Metho EPA-M EPA-T USEPA PLE ID:	33007 d Litera ethods 1 est Meth CLP SON 02-SB2 32942 33124	NA ature Refe for Chemic nods for E I for Orga 20-B-A MS	al Analysis of the control of the co	id Waste, 3rd ed, Multi-Conc., Rev.	20-D21sV 1984. Nov. 1986 2/88 20-CLPSW	11-AUG-93 LSG SA 20-AUG-93	1200 MPLE 1603 2200	NO:	H0245837 0 0	111WAT



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

				SAMPLE	PREPARATION			- SAM	PLE A	NALYSIS -	
	TEST	PREP	LR-			LR-				ANLS	
LN	CODE	BATCH	METHOD	DATE/TIME	ANALYST	METHOD	DATE/TIME		ANAL	YST BATC	H INSTRUMENT

<u>LR</u>	Metho	d Litera	ature Refe	erence							
02	EPA-M	ethods 1	for Chemic	al Analysis (of Water & Wastes, 1984	•					
19	EPA-T	est Meth	nods for E	valuating So	lid Waste, 3rd ed, Nov.	1986					
20	USEPA	CLP SOL	/ for Orga	nic Analysis,	, Multi-Conc., Rev. 2/	88					
SAN	IPLE ID:	02-SB2	O-B-A MSD	•			LSG SA	AMPLE	NO:	H0245838	
2	OSTSC	32942	20-CLP	09-AUG-93 12	200 RE	20-CLPSW	20-AUG-93	1648	ASD	0	GCMSS
3	1800	33124	NA				16-AUG-93			0	004WAT
4	DPACK	0	NA		•		10-SEP-93			-	004#/11
5	16858	33193	19-3550			02-418.1	18-AUG-93			Ō	302WAT
LR	Metho	d Litera	ture Refe	rence							
02	EPA-M	ethods f	or Chemic	al Analysis o	of Water & Wastes, 1984	•					
19					id Waste, 3rd ed, Nov.						
20	USEPA	CLP SOW	for Orga	nic Analysis,	Multi-Conc., Rev. 2/8	88					
SAM	PLE ID:	02-RB0	1-A-A				LSG SA	MPLE	NO:	H0245839	
1	OVTSC	0	NA			20-CLP	13-AUG-93	1253	JBP	0	GCMSO
2	OSTSC	32942	20-CLP	09-AUG-93 12	00 RE	20-CLPSW	20-AUG-93			Õ	GCMSS
4	DPACK	0	NA				10-SEP-93			Ö	
5	1685s	33193	19-3550			02-418.1	03-SEP-93	809	LJH	0	302WAT
6	1801	33007	NA			20-D21sV	11-AUG-93	1200	SS	0	111WAT
LR	Method	d Litera	ture Refe	rence							
02					f Water & Wastes, 1984.						
19	EPA-Te	st Meth	ods for Ev	valuating Sol	id Waste, 3rd ed, Nov.	1986					
20	USEPA	CLP SOW	for Organ	nic Analysis,	Multi-Conc., Rev. 2/8	38					
				-	•						



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

				SAMPLE PR	REPARATION			SAME	LE A	NALYSIS	
	TEST	PREP				LR-				ANLS	
		BATCH	METHOD	DATE/TIME	ANALYST		DATE/TIME		ANAL	YST BATCH	INSTRUMEN
-											
M£	PLE ID:	02-FB0	1-A-A				LSG SA	MPLE	NO:	H0245840	
	OVTSC	0	NA			20-CLP	13-AUG-93	1321	JBP	0	GCMSO
	OSTSC	32942	20-CLP	09-AUG-93 120	00 RE	20-CLPSW	30-AUG-93	1144	ASP	0	GCMSS
	DPACK	0	NA				10-SEP-93	1700	SLG	0	
	1685s	33193	19-3550				03-SEP-93			0	302WAT
	1801	33007	NA			20-D21sV	11-AUG-93	1200	SS	0	111WAT
	Metho	d Litera	iture Refe	rence							
					f Water & Wastes,	1984.					
					id Waste, 3rd ed,						
					Multi-Conc., Rev.						
	ŪSEPA		l for Orga				LSG SA	MPLE	NO:	н0245841	
([ŪSEPA PLE ID: OVTSC	02-FB0	l for Orga)2-A-A NA			2/88 20-CLP	13-AUG-93	1347	JBP	0	GCMSO
16	ŪSEPA PLE ID: OVTSC	02-FB0	l for Orga)2-A-A			2/88 20-CLP	13-AUG-93 20-AUG-93	1347 1814	JBP ASP	0 0	GCMS0 GCMSS
М	USEPA PLE ID: OVTSC OSTSC	02-FB0	I for Orga)2-A-A NA 20-CLP			2/88 20-CLP 20-CLPSW	13-AUG-93 20-AUG-93 10-SEP-93	1347 1814 1700	JBP ASP SLG	0 0 0	GCMSS
46	USEPA PLE ID: OVTSC OSTSC DPACK	02-FB0 0 0 0 0 0 33193	I for Orga)2-A-A NA 20-CLP			2/88 20-CLP 20-CLPSW 02-418.1	13-AUG-93 20-AUG-93 10-SEP-93 03-SEP-93	1347 1814 1700 813	JBP ASP SLG LJH	0 0 0	GCMSS 302WAT
•	USEPA PLE ID: OVTSC OSTSC DPACK	02-FB0 0 0 0	I for Orga 12-A-A NA 20-CLP NÀ			2/88 20-CLP 20-CLPSW 02-418.1	13-AUG-93 20-AUG-93 10-SEP-93	1347 1814 1700 813	JBP ASP SLG LJH	0 0 0	GCMSS
•	USEPA PLE ID: OVTSC OSTSC DPACK 1685S 1801 Metho	02-FB0 0 0 0 0 0 33193 33007	I for Orga 12-A-A NA 20-CLP NA 19-3550 NA	erence	Multi-Conc., Rev.	20-CLP 20-CLPSW 02-418.1 20-D21sV	13-AUG-93 20-AUG-93 10-SEP-93 03-SEP-93	1347 1814 1700 813	JBP ASP SLG LJH	0 0 0	GCMSS 302WAT
	USEPA PLE ID: OVTSC OSTSC DPACK I685S I801 Metho EPA-M	02-FB0 0 0 0 0 33193 33007 d Litera	I for Orga NA 20-CLP NA 19-3550 NA ature Refe	erence eal Analysis o	Multi-Conc., Rev.	2/88 20-CLP 20-CLPSW 02-418.1 20-D21SV	13-AUG-93 20-AUG-93 10-SEP-93 03-SEP-93	1347 1814 1700 813	JBP ASP SLG LJH	0 0 0	GCMSS 302WAT
•	USEPA PLE ID: OVTSC OSTSC DPACK 1685S 1801 Metho EPA-M	O2-FBCOO O O O O O O O O O O O O O O O O O O	I for Orga 12-A-A NA 20-CLP NA 19-3550 NA ature Refe for Chemic	erence cal Analysis of cycluating Sol	Multi-Conc., Rev. f Water & Wastes, id Waste, 3rd ed,	2/88 20-CLP 20-CLPSW 02-418.1 20-D21SV 1984. Nov. 1986	13-AUG-93 20-AUG-93 10-SEP-93 03-SEP-93	1347 1814 1700 813	JBP ASP SLG LJH	0 0 0	GCMSS 302WAT
46	USEPA PLE ID: OVTSC OSTSC DPACK 1685S 1801 Metho EPA-M	O2-FBCOO O O O O O O O O O O O O O O O O O O	I for Orga 12-A-A NA 20-CLP NA 19-3550 NA ature Refe for Chemic	erence cal Analysis of cycluating Sol	Multi-Conc., Rev.	2/88 20-CLP 20-CLPSW 02-418.1 20-D21SV 1984. Nov. 1986	13-AUG-93 20-AUG-93 10-SEP-93 03-SEP-93	1347 1814 1700 813	JBP ASP SLG LJH	0 0 0	GCMSS 302WAT
46	USEPA PLE ID: OVTSC OSTSC DPACK 1685S 1801 Metho EPA-M EPA-T USEPA	O2-FBCOO O O O O O O O O O O O O O O O O O O	NA 20-CLP NA 19-3550 NA sture References for Chemical Control of the Control of t	erence cal Analysis of cycluating Sol	Multi-Conc., Rev. f Water & Wastes, id Waste, 3rd ed,	2/88 20-CLP 20-CLPSW 02-418.1 20-D21SV 1984. Nov. 1986	13-AUG-93 20-AUG-93 10-SEP-93 03-SEP-93 11-AUG-93	1347 1814 1700 813 1200	JBP ASP SLG LJH SS	0 0 0	GCMSS 302WAT
46	USEPA PLE ID: OVTSC OSTSC DPACK 1685S 1801 Metho EPA-M EPA-T USEPA	02-FB0 0 0 0 33193 33007 d Litera ethods 1 est Meth CLP SON	NA 20-CLP NA 19-3550 NA sture References for Chemical Control of the Control of t	erence cal Analysis of cycluating Sol	Multi-Conc., Rev. f Water & Wastes, id Waste, 3rd ed,	2/88 20-CLP 20-CLPSW 02-418.1 20-D21SV 1984. Nov. 1986	13-AUG-93 20-AUG-93 10-SEP-93 03-SEP-93 11-AUG-93	1347 1814 1700 813 1200	JBP ASP SLG LJH SS	0 0 0 0 0	GCMSS 302WAT

USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

	TEST	PREP	LR-			LR-			ANLS	
-	CODE	BATCH	METHOD	DATE/TIME	ANALYST	METHOD	DATE/TIME	ANAL	YST BATCH	INSTRUMEN
M	PLE ID:	02-TB()2-A-A				LSG SAMPLE	NO:	H0245843	
	OVTSC		NA			20-CLP			0	GCMSO
	DPACK	0	NA				10-SEP-93 1700	SLG	0	
2	Metho	d litera	ature Refe	erence						
)					Multi-Conc., Rev	. 2/88				
٩M	PLE ID:	02-SB1	18-B-A				LSG SAMPLE	NO:	H0246038	
	OVTSC	0	NA			20-CLP	13-AUG-93 1607	JBP	0	GCMSO
	OSTSC		20-CLP	09-AUG-93 12	00 RE		20-AUG-93 1857		Ö	GCMSS
	1800	33124	NA				16-AUG-93 2200		=	004WAT
	DPACK	0	NA				10-SEP-93 1700		-	
	16855	33193	19-3550			02-418.1	18-AUG-93 1428	LJH	0	302WAT
	1801	33007	NA			20-D21SV	11-AUG-93 1200	SS	0	111WAT
2	Motho	d Litona	iture Refe	nonee						
2					f Water & Wastes,	108/				
,					id Waste, 3rd ed,					
)				_	Multi-Conc., Rev.					
۱M	PLE ID:	02-RB0)2-A-A				LSG SAMPLE	NO:	но246039	
	OVTSC	0	NA			20-CLP	13-AUG-93 1508	JBP	0	GCMSO
	OSTSC	32942	20-CLP	09-AUG-93 120	00 RE .	20-CLPSW	20-AUG-93 1940	ASP	0	GCMSS
	DPACK	0	NA				10-SEP-93 1700	SLG	0	
	1685s	33193	19-3550			02-418.1	03-SEP-93 815	LJH	0	302WAT
	1801	33007	NA			20-D21SV	11-AUG-93 1200	SS	0	111WAT

EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986

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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

				SAMPLE PI	REPARATION	LR-	SAMI	PLE ANAI	ANLS	
1 14	TEST CODE	PREP BATCH	LR- METHOD	DATE/TIME	ANALYST		DATE/TIME	ANALYS		INSTRUMENT
			METROD							
<u>LR</u>	Metho	d Litera	ature Ref	erence						
20	USEPA	CLP SOL	l for Org	anic Analysis,	Multi-Conc., Rev.	2/88				
SAM	IPLE ID:	02-SB1	15-A-A				LSG SAMPLE	NO: H	0246040	
3	1800	33124	NA			20-D21SV	16-AUG-93 2200	JB	0	004WAT
4	DPACK	0	NA		*	•	10-SEP-93 1700	SLG	0	
5			19-3550			02-418.1	18-AUG-93 1433	LJK	0	302WAT
02 19 20 SAM	EPA-T USEPA	est Metl	hods for / for Org	Evaluating Sol	f Water & Wastes, 1 id Waste, 3rd ed, N Multi-Conc., Rev.	ov. 1986	LSG SAMPLE	NO: H	0246041	
-		7740/				20-D21SV	16-AUG-93 2200	JR	0	004WAT
3 4	1800 DPACK	33124	NA NA			20 02.01	10-SEP-93 1700		Ö	
5	•	-	19-3550)		02-418.1	18-AUG-93 1436		0	302WAT
<u>LR</u> 02 19 20	EPA-M	ethods est Met	hods for	cal Analysis o Evaluating Sol	f Water & Wastes, 1 id Waste, 3rd ed, M Multi-Conc., Rev.	lov. 1986				
SAF	MPLE ID:	02-SB	15-C-A				LSG SAMPLE	NO: H	0246042	
3	1800	33125	NA			20-D21sV	16-AUG-93 2200	JB	0	004WAT
4	DPACK	0	NA				10-SEP-93 1700	SLG	0	
•	1685S	33193	19-3550)		02-418.1	18-AUG-93 1439	LJH	0	302WAT
LR	Metho	d Liter	ature Ref	ference						



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

				SAMPLE F	REPARATION		SAM	PLE ANAL'	rsis	
	TEST	PREP	LR-			LR-			ANLS	
LN	CODE	BATCH	METHOD	DATE/TIME			DATE/TIME			INSTRUMENT
<u>LR</u>	Metho	d Litera	sture Refe	erence		,				
02	EPA-M	ethods 1	for Chemic	al Analysis o	of Water & Wastes,	1984.				
19	EPA-T	est Meth	nods for E	valuating Sol	id Waste, 3rd ed,	Nov. 1986				
20	USEPA	CLP SOL	l for Orga	anic Analysis,	Multi-Conc., Rev.	2/88				
SAM	PLE ID:	02-FD1	15-C-A				LSG SAMPLE	NO: HO2	246043	
3	0081	33125	NA			20-D21SV	16-AUG-93 2200	JB	0	004WAT
4	DPACK	0	NA				10-SEP-93 1700	SLG	0	
5	1685\$	33193	19-3550			02-418.1	18-AUG-93 1444	LJH	0	302WAT
LR	Metho	d Litera	iture Refe	erence						
02					of Water & Wastes,	1984.				
19				•	id Waste, 3rd ed,					
20	USEPA	CLP SOW	for Orga	nic Analysis,	Multi-Conc., Rev.	2/88				
SAM	PLE ID:	02-TB0	3-A-A				LSG SAMPLE	NO: HO2	246044	
4	DPACK	0	NA				10-SEP-93 1700	SLG	0	
5	OVTCS	0	NA	. *		19-8240	13-AUG-93 1534	JBP	0	GCMSO
LR	Metho	d Litera	iture Refe	rence						
19					id Waste, 3rd ed,	Nov. 1986				
SAM	PLE ID:	02-SB1	9-A-A				LSG SAMPLE	NO: HO2	246697	
1	OVTSC	0	NA			20-CLP	14-AUG-93 2217	ЕНМ	0	GCMSO
2	OSTSC	33041	20-CLP	12-AUG-93 12	00 MLN	20-CLPSW	27-AUG-93 1354	ASP	0	GCMSS
3	1800	33125	NA			20-D21SV	16-AUG-93 2200	JB	0	004WAT
4	DPACK	0	NA		•		10-SEP-93 1700	SLG	0	



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

				SAMPLE P	REPARATION			- SAM	PLE A		
	TEST	PREP	LR-			LR-				ANLS	
	CODE	BATCH	METHOD	DATE/TIME	ANALYST	METHOD	DATE/TIME		ANAL	YST BATCH	INSTRUMEN
	1685s		19-3550			02-418.1	25-AUG-93	1046	SAO	0	302WAT
	1801	33127	NA			20-D21SV	16-AUG-93	500	JB	0	111WAT
R	Metho	d_Lit <u>era</u>	iture Refe	erence							
2	EPA-M	ethods f	or Chemic	al Analysis of	f Water & Wastes,	1984.					
9	EPA-T	est Meth	ods for E	valuating Sol	id Waste, 3rd ed,	Nov. 1986					
0	USEPA	CLP SOW	l for Orga	anic Analysis,	Multi-Conc., Rev	2/88					
AM	PLE ID:	O2-RB0	3-A-A				LSG S	AMPLE	NO:	H0246698	
	OVTSC	0	NA			20-CLP	14-AUG-93	2344	EHM	0	GCMSO
	OSTSC	33041	20-CLP	12-AUG-93 120	OO MLN	20-CLPSW	23-AUG-93	1055	ASP	0	GCMSS
	-DPACK	0	NA				10-SEP-93	1700	SLG	0	
	1685S	33386	19-3550			02-418.1	25-AUG-93	1048	SAO	0	302WAT
	1801	33127	NA .			20-D21sV	16-AUG-93	500	JB	0	111WAT
<u>R</u>	Metho	d Litera	ture Refe	erence							
2	EPA-M	ethods f	or Chemic	al Analysis o	f Water & Wastes,	1984.					
9				-	id Waste, 3rd ed,						
0	USEPA	CLP SOW	l for Orga	anic Analysis,	Multi-Conc., Rev	. 2/88					
AM	PLE ID:	02-TB0	14-A				LSG S	AMPLE	NO:	H0246708	
	OVTSC	0	NA			20-CLP	15-AUG-93	13	EHM	0	GCMSO
	DPACK	0	NA				10-SEP-93	1700	SLG	0	

20 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

	TEST	PREP			PREPARATION -		LR-		-		ANLS	
l -	CODE	BATCH	METHOD		ANALYST					ANAL	YST BATCH	INSTRU
М	PLE ID:	02- S 8	18-B-A MS					LSG S	AMPLE	NO:	H0246770	
	OVTSC	0	NA				20-CLP	13-AUG-93	1638	JBP	0	GCMSO
	DPACK	0	NA					10-SEP-93	1700	SLG	0	
	Metho	d Litera	sture Ref	erence								
	USEPA	CLP SO	for Orga	anic Analysis	s, Multi-Conc.	, Rev. 2/88						
41	PLE ID:	02-SB	18-B-A MS	D				LSG S	AMPLE	NO:	H0246771	
	OVTSC	0	NA				20-CLP	13-AUG-93	1714	JBP	0	GCMSO
	DPACK	0	NA					10-SEP-93	1700	SLG	0	
	Metho	d Litera	ture Refe	erence		•						
	USEPA	CLP SO	i for Orga	anic Analysis	s, Multi-Conc.	, Rev. 2/88						
11	PLE ID:	02-SB2	26-B-A					LSG S	AMPLE	NO:	но247049	
	OVTSC	0	NA				20-CLP	24-AUG-93	1332	EHM	0	GCMSO
	OSTSC	33261	20-CLP	17-AUG-93 1	1330 RDQ		20-CLPSW	27-AUG-93	1509	ASP	0	GCMSS
	1800	33327	NA				20-D21SV	23-AUG-93	1230	DPP	0	005WAT
		0	NA					10-SEP-93	1700	SLG	0	
	DPACK	33386	19-3550				02-418.1	25-AUG-93	1051	SAO	0	302WAT
	1685S		NA				20-D21SV	24-AUG-93	1500	DPP	0	111WAT
		33351	NA									
	1685S 1801		na iture Refe	erence								

USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88

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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

				SAMPLE PR	EPARATION			SMMI	LE M	ANLS	
N	TEST CODE	PREP BATCH	LR- METHOD	DATE/TIME	ANALYST	LR- METHOD	DATE/TIME		ANAL		INSTRUMENT
A.M.	PLE ID:	02-RB)5-A-A				LSG SA	MPLE	NO:	H0247050	
		•	NA.			20-CLP	17-AUG-93	1743	EHM	0	GCMSO
	OVTSC		NA 20-CLP	17-AUG-93 133	in RDQ		23-AUG-93			0	GCMSS
		33261	NA	11 700 75 150	,	-	10-SEP-93	1700	SLG	0	
	DPACK		19-3550			02-418.1	25-AUG-93	1053	SAO	0	302WAT
		0	NA NA				17-AUG-93			0	
R 2 9	EPA-M	ethods est Met	hods for E	cal Analysis of Evaluating Sol	f Water & Wastes, id Waste, 3rd ed, Multi-Conc., Rev	Nov. 1986					
	PLE ID:	02-TB	06-A-A				LSG S	AMPLE	NO:	H0247051	
ММ		0	NA.			20-CLP	17-AUG-93	1811	EHM	0	GCMSO
ΑM	OVTSC						10-SEP-93			0	

LR Method Literature Reference

20 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88



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QUALITY CONTROL REPORT LABORATORY CONTROL SAMPLE RECOVERY

PERCENT ACCEPTANCE TEST RECOVERY LIMITS CODE DETERMINATION LSG SAMPLE NO: H0246506 BATCH: 32942 SAMPLE ID: Lab Control Sample OSTSC TCL - BNA + CLP Data Package - Soil Done Data Package - BNA LSG SAMPLE NO: H0247904 BATCH: 33193 SAMPLE ID: Lab Control Sample 104.0 1685S Petroleum Hydrocarbons LSG SAMPLE NO: H0249222 BATCH: 33386 SAMPLE ID: Lab Control Sample 91.0 1685S Petroleum Hydrocarbons



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QUALITY CONTROL REPORT METHOD BLANK DATA

	TEST CODE Det	termination	RESULT		UNIT	S
BATCH: 32942	SAMPLE ID:	Method Blank	LSG SAM	IPLE 1	NO:	н0246507
		L - BNA + CLP Data Package - Soil ta Package - BNA	Done	;	ug/i	(g
BATCH: 33041	SAMPLE ID:	Method Blank	LSG SAM	IPLE	NO:	но247657
		L - BNA + CLP Data Package - Soil ta Package - BNA	Done	•	ug/l	kg
BATCH: 33124	SAMPLE ID:	Method Blank	LSG SA	4PLE	NO:	H0247792
-	1800 CL	P - percent moisture	< 0.	1	*	
BATCH: 33125	SAMPLE ID:	Method Blank	LSG SA	MPLE	NO:	H0247793
	1800 CL	P - percent moisture	< 0.	1	*	
BATCH: 33193	SAMPLE ID:	Method Blank	LSG SA	MPLE	NO:	H0247905
	1685S Pe	etroleum Hydrocarbons	< 2	0	mg/	kg
BATCH: 33261	SAMPLE ID:	Method Blank	LSG SA	MPLE	NO:	H0249014
		CL - BNA + CLP Data Package - Soil ata Package - BNA	Dor	ie	ug/	'kg
BATCH: 33327	SAMPLE ID:	Method Blank	LSG SA	MPLE	NO:	H0249132
	1800 CI	LP - percent moisture	< 0.	,1	*	
BATCH: 33386	SAMPLE ID:	Method Blank	LSG SA	MPLE	NO:	H0249223
•	1685S P	etroleum Hydrocarbons	< 1	20	mg,	/kg



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QUALITY CONTROL REPORT DUPLICATE AND MATRIX SPIKE DATA

BATCH:	33007					LSG SAMPL	E NO: H024	5836
<u>TEST</u> 1801	DETERMINATION CLP pH for Organics Extraction	ORIGINAL <u>RESULT</u> 6.55	DUPLICATE RESULT 6.57	<u>units</u>	RANGE / RPD 0.5	<u>UNITS</u>	MS <u>result</u>	MS % RCVRY
BATCH:	: 33127					LSG SAMPE	E NO: H024	6697
<u>TEST</u> 1801	DETERMINATION CLP pH for Organics Extraction	ORIGINAL RESULT 6.48	DUPLICATE RESULT 6.36	UNITS	RANGE / <u>RPD</u> 1.87	UNITS	MS RESULT	MS %
BATCH	: 33351					LSG SAMPI	LE NO: H024	7049
<u>TEST</u> 1801	<u>DETERMINATION</u> CLP pH for Organics Extraction	ORIGINAL RESULT 6.97	DUPLICATE RESULT 6.97	UNITS	RANGE / RPD 0.0	UNITS	MS <u>result</u>	MS % RCVRY

BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT VOLATILES DATA PACKAGE ELL1, PKG2

PACE INCORPORATED HOUSTON ANALYTICAL LABORATORY SEPTEMBER 13, 1993

VOLATILE CASE COMMENTS BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT ELL1, PKG2 MATRIX: SOIL

- 1. Data calculation on Forms I through VIII were performed using Finnigan Formaster software (Version 3.2) for the 3/90 protocols. Occasional differences in rounding are encountered due to initial rounding of numerical data by Formaster. The effects of this rounding are considered minor and no serious errors in the final data are expected. The EPA views the use of Formaster software satisfactory for CLP type data package generation.
- 2. See enclosed list for definitions of flags.
- 3. The samples were analyzed within the hold time period for this package.
- 4. No tentatively identified compounds or raw-data were required by the client.
- 5. The matrix spike 02-SB18-B-A-MS (H246770MS) contained no acetone; however, due to inhomogenity of the sample, the matrix spike duplicate (H246771MSD) did show to contain acetone. No further corrective action was taken.
- 6. In sample 02-SB16-B-A (H245835), the BFB surrogate failed due to matrix interference. When the sample was reanalyzed, the matrix effect was confirmed with BFB failing again. Due to the inhomogenity of the sample, the first analysis revealed acetone at 200 ug and the second analysis was clean. Both Form 1's are included in the package.
- 7. Five laboratory control samples were run within this package. Refer to Form 3. Each was compared to the method blank run just prior to it to obtain spike recoveries. Laboratory control sample #3 (LCS3) failed the BFB surrogate. This LCS was run in conjunction with reanalysis for sample 02-SB16-B-A (H245835) to confirm matrix interference. Recoveries for the LCS were good and no further corrective action was taken.
- 8. Initially, five grams of sample 02-SB26-B-A (H247049) was analyzed and target analytes exceeded the calibration range, as signified by the "E" flag on Form 1. A one gram aliquot was analyzed (02-SB26-B-A-DL) and the target compounds were within calibration range. A "D" flag indicates the analyte was calculated from a dilution on Form 1. No further corrective action was taken and both Form 1's are included in the data package.
- 9. The laboratory control samples were spiked with more compounds than the usual matrix spike. Therefore, the Form 1's indicate results for these target compounds.

(from Statement of Work for Organics Analysis, Rev. 3/90)

- A This flag indicates that a TIC is a suspected aldolcondensation product.
- B This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warms the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.
- C This flag applies to pesticide results where the <u>identification</u> has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do <u>not</u> apply this flag; instead use a laboratory-defined flag, discussed below.
- D This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is reanalyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.
- E This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and reanalyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, for example, a diluted analysis is not required for total xylenes unless the concentration of either peak separately exceeds 200 ug/L.
- J Indicates an estimate value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 ug/L, but a concentration of 3 ug/L is calculated, report it as 3 J. The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

- N Indicates the presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X.) The lower of the two values is reported on Form I and flagged with a "p."
- U Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24%_moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$(330 \text{ U}) \times \text{df}$$
, where $D = 100 - \% \text{ moisture}$ and $\text{df} = \text{dilution}$
 100 factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

(330 U) x 10 = 4300 U rounded to the appropriate number of significant figures

For soil samples subjected to GPC cleanup procedures, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the specified volume, this fact must be accounted for in reporting the sample quantitation limit.

X — Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG Narrative. Begin by using "X." If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A," "B," and "D" flags for some sample. The laboratory-defined flags are <u>limited to</u> the letters "X," "Y," and "Z."

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

ELLINGTON AFB TRACKING CHART

CASE I.D.:	ELL1
SDG:	PKG2
MATRIX:	SOIL

MATRIX:	SOIL		
PACE	CLIENT		DATE
NUMBER	I.D.	SXD	RCVD
H245835	02-SB16-B-A	8/5	8/5
H245836	02-SB20-B-A		
H245837	02-SB20-B-A MS		
H245838	02-SB20-B-A MSD		
H245839	02-RB01-A-A		
H245840	02-FB01-A-A	j	
H245841	02-FB02-A-A		
H245842	02-TB01-A-A	Ì	
H245843	02-TB02-A-A	1	
H246038	02-SB18-B-A	8/6	8/6
H246039	02-RB02-A-A	•	
H246040	02-SB15-A-A		
H246041	02-SB15-B-A	İ	
H246042	02-SB15-C-A	- 1	
H246043	02-FD15-C-A		
H246044	02-TB03-A-A	ı	
H246697	02-SB19-A-A	8/11	8/11
H246698	02-RB03-A-A	- [
H246708	02-TB04-A		1
H246770	02-SB18-B-A MS	8,46	8/6
H246771	02-SB18-B-A-MSD	j	1
H247049	02-SB26-B-A	8/13	8/14
H247050	02-RB05-A-A		ľ
H247051	02-TB06-A-A	I	

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02FB01AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245840

Sample wt/vol: 5.0 (g/mL) 6 Lab File ID: 0VP08139302

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

			CONCEN	ITR	ATION U	NITS:		
	CAS NO.	COMPOUND	(uō/L	or	ug/Kg)	UG/KG		Q.
1			······		:	· . , <u> </u>		<u> </u>
;	74-87-3	Chloromethane			1	10	·	
	/4-03-7				,	10		!
ì	/3-01-4	Vinvi (blocida			1	10		!
i	/3-00-3	!h!oroethane			1	10	: U	:
1	/3-07-2	Methylene Intoric	ia –			7	ij	•
;	67-64-1	Acetone_ Carbon Disulfide_			!	10	١Ū	i
i	75-15-0	Carbon Disulfide				10	10	į
i	/3-33-4	1.1-Dichloroether	16		į.	10	ΙU	į
i	/5-34-3	1.1-Dichloroethar	1e		!	10	10	:
·	340-37-0	1,2-Dichloroether	e (tota	1)	<u> </u>	10	ΙŪ	
ł	67-66-3	Chloroform			!	10	ΙÜ	!
i	107-06-2	1,2-Dichloroethan	16		!	10	10	•
i	78-93-3	2-Butanone			t	10	: 0	i
i	71-55-6	1.1.1-Trichloroet	hane		!	10	10	•
i	56-23-5	Carbon Tetrachlor	·ido		į.	10	10	:
i	/5-2/-4	Bromodichlorometh	ene		1	10	ιυ	•
- ;	/8-87-5	1.2-Dichloroorana	ne		i	10	: U	:
i	10061-01-5	cis-1.3-Dichloroo	PODEDE		. 1	10	: U	į
i	/7-01-6	Trichloroethese				10	ı	f <u>t</u>
	1 2 4 - 4 0 - 1		200		1	10	: U	1
i	/9-00-5	1.1.2-Trichloroat	h and				ΙU	į
ŧ	71-43-2	Benzene_	-			10		!
ł	10061-02-6	Benzene trans-1,3-Dichlor	opropens	2	·		10	!
i	75-25-2	Bromoform				10	ΙÜ	•
¦	108-10-1	Bromoform	one		1	10	10	1
ï	591-78-6	2-Hexanone Tetrachloroethene 1,1,2,2-Tetrachlo				10	: U	:
1	127-18-4	Tetrachloroethene			i	10	iÜ	•
ţ	79-34-5	1,1,2,2-Tetrachlo	roethane	 		10	: U	1
1	108-88-3	Toluene			: !	10	10	1
ŧ	108-90-7	Toluene	· · · · · · · · · · · · · · · · · · ·		<u>:</u>	10	10	, ,
	100-41-4					10	: U	1
ŀ	100-42-5	Styrene			 ;	10	10	1 •
ŀ	1330-20-7	Styrene Xylene (total)			<u>'</u>	10	: U	i I
1					 '	10	: U	i i
					•		t	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: PACE INC.

Contract: ELLINGTON

02FB01AA

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245840

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: OVPO8139302

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

GC Column: CAP ID: 0.530 (mm)

Date Analyzed: 08/13/93 Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER COMPOUND NAME | RT | EST. CONC. | Q | !

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: PACE INC.

Contract: ELLINGTON

02FB02AA

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245841

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: DVP08139303

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP

ID: 0.530 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

	CAS NO.			ug/Kg)	· - · - •		Q
!				1		í	
i	/4-8/-3	Chloromethane			10	ŧυ	1
i	74-83-9	Bromomethane			10	ΙU	į
1	75-01-4	Vinyl Chloride			10	Ü	i
i	/5-00-3	Chloroethane		1	10	Ιυ	
1	75-09-2	Methylene Chloride_		}	10	10	!
i	6/-64-1	Acetone		•	10	: U	
i	75-15-0	Carbon Disulfide	······································	· !	10	10	
i	75-35-4	1.1-Dichloroethene		 ;	10	10	• !
i	75-34-3	1.1-Dichloroethane		 ;	10	: U	i
1	540-59-0	1,2-Dichloroethene (totall				i .
;	67-66-3	Chloroform	000017	:	10	i U	i
;	107-06-2	1,2-Dichloroethane_		<u>'</u>	10	10	i
:	78-93-3	2-Butanone		¦	10	l U	i
ł	71-55-6	1,1,1-Trichloroethan		!	10	!U	i
•	54-27-5	ritit intuitor be than	e	i	10	!U	i

1 124-48-1-----Dibromochloromethane___ 10 1U ! 79-00-5-----1,1,2-Trichloroethane____ 10 10 | 71-43-2----Benzene____ 10 10 1 10061-02-6----trans-1,3-Dichloropropene_ 10 !U | 75-25-2----Bromoform____ 10 ΙU | 108-10-1----4-Methyl-2-Pentanone____ 10 10 | 591-78-6----2-Hexanone___ 10 1U | 127-18-4-----Tetrachloroethene__ 10 10 | 79-34-5-----1,1,2,2-Tetrachloroethane___ 10 IU

| 108-88-3----Toluene | 108-90-7-----Chlorobenzene__ l 100-41-4----Ethylbenzene____

: 56-23-5-----Carbon Tetrachloride____

| 75-27-4----Bromodichloromethane

| 10061-01-5----cis-1,3-Dichloropropene___

- 78-87-5-----1,2-Dichloropropane__

: 79-01-6-----Trichloroethene_

10 !U 10 IU 10 10 10 :U

!U

10

10

10

10

10

10

l U

IU

10

10

111

| 100-42-5----Styrene__ | 1330-20-7----Xylene (total)__ 1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02FB02AA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245841

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: DVP08139303

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

: RT : EST. CONC. : Q COMPOUND NAME CAS NUMBER

1 A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

OZRBO1AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245839

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: OVP08139301

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND (uç	J/L or ug/Kg) UG/KG	و)
		!	!	
74-87-3	Chloromethane	1		1
74-83-9	Bromomethane	10		1
75-01-4	Vinyl Chloride	1		ì
75-00-3	Chloroethane	1 (1
75-09-2	Methylene Chloride	!	5 i J	1
67-64-1	Acetone	10		1
75-15-0	Carbon.Disulfide	1		i
	1,1-Dichloroethene			
	1,1-Dichloroethane) U	
	1,2-Dichloroethene (†			
67-66-3	Chloroform	! 10		
107-06-2	1,2-Dichloroethane	10) !U	
78-93-3	2-Butanone) (8	1
71-55-6	1,1,1-Trichloroethane	ei 10) U	
56-23-5	Carbon Tetrachloride	1 10) (8	
75-27-4	Bromodichloromethane	i 10) IU	
78-87-5	1,2-Dichloropropane_	10) (8	
	cis-1,3-Dichloroprope		10	
79-01-6	Trichloroethene	1 10) IU	
124-48-1	Dibromochloromethane	10) IU	
	1,1,2-Trichloroethan) U	
	Bénzene		U1. C	
	trans-1,3-Dichloropro		D IU	
	Bromoform		o iu	
108-10-1	4-Methyl-2-Pentanone	1:) U	
	2-Hexanone		o iu	
127-18-4	Tetrachloroethene	; 1	o iu	
	1,1,2,2-Tetrachloroe) IU	
	Toluene		ul c	
	Chlorobenzene		טו כ	
	Ethylbenzene			
	Styrene			
	Xylene (total)		–	
1000-20-/	Aylene (ODUAL)	<u> </u>		

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02RB01AA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245839

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: 0VP08139301

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02RB02AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246039

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08139306

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG G

74-87-3	
74-83-9	
75-01-4	
75-00-3	
75-09-2	
67-64-1	
75-35-41,1-Dichloroethene 10 !U 75-34-31,1-Dichloroethane 10 !U 540-59-01,2-Dichloroethene (total) 10 !U 67-66-3Chloroform 10 !U 107-06-21,2-Dichloroethane 10 !U 78-93-32-Butanone 10 !U 71-55-61,1,1-Trichloroethane 10 !U 75-27-4Bromodichloromethane 10 !U 78-87-5Carbon Tetrachloride 10 !U 78-87-5Bromodichloromethane 10 !U 79-01-6Bromodichloromethane 10 !U 10061-01-5	
75-35-41,1-Dichloroethene	
75-35-41,1-Dichloroethene	
540-59-01,2-Dichloroethene (total) 10 U 67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32Butanone 10 U 71-55-61,1,1-Trichloroethane 10 U 56-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 77-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-1	
67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U 71-55-61,1,1-Trichloroethane 10 U 56-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 10061-01-5	
67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U 71-55-61,1,1-Trichloroethane 10 U 56-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 10061-01-5	
78-93-32-Butanone 10 U 71-55-61,1,1-Trichloroethane 10 U 56-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U	
78-93-32-Butanone 10 U 71-55-61,1,1-Trichloroethane 10 U 56-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 10061-01-5is-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U	
71-55-6	
56-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 10061-01-5is-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-1	
75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7	
78-87-51,2-Dichloropropane 10 U 10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U	
10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U	
79-01-6Trichloroethene	
124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Chlorobenzene 10 U 100-41-4	
79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Chlorobenzene 10 U 100-41-4	
71-43-2Benzene	
10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3	
75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U U 591-78-62-Hexanone 10 U U 127-18-4Tetrachloroethene 10 U U 108-88-3Toluene 10 U U 108-90-7Chlorobenzene 10 U U 100-41-4Ethylbenzene 10 U U U U U U U U U	
108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U	
591-78-62-Hexanone 10 10 127-18-4Tetrachloroethene 10 10 79-34-51,1,2,2-Tetrachloroethane 10 10 108-88-3Toluene 10 10 108-90-7Chlorobenzene 10 10 100-41-4Ethylbenzene 10 10	
127-18-4Tetrachloroethene 10 U 179-34-51,1,2,2-Tetrachloroethane 10 U U 108-88-3	
79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U	
108-88-3Toluene; 10 :U 108-90-7Chlorobenzene; 10 :U 100-41-4Ethylbenzene; 10 :U	
108-90-7	
100-41-4Ethylbenzene; 10 U	
100-41-4i 10 iU	
100-42-5Styrene 10 U	
1330-20-7Xylene (total) 10 U	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02RB02AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246039

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08139306

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER | COMPOUND NAME

| RT | EST. CONC. | Q |

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

O2RBO5AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247050

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: DVP08179302

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: not dec.

Date Analyzed: 08/17/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

	CAS NO.	COMPOUND			ATION UI ug/Kg)		Q	
1	7/1_07_3	Ch 1			1		1	1
!	74-83-9	-Chloromethane	·		<u>:</u>	10	10	i
:	75-01-4	-Vinyl Chloride			<u>'</u>	10	. —	:
	75-00-3	-Chloroethane			i	10	I U	i
	75-09-2	-Methylene Chloride			i	10		ì
:	67-64-1	-Acetons			!	6		i ·
į	75-15-0	-Acetone -Carbon Disulfide			i	31	1	i.
•	75-35-4	-1,1-Dichloroethene			<u>i</u>	10	ΙU	i
,	75-34-3	-1 1-Dichle			<u>;</u>	10	IU	į
	540-59-0	-1,1-Dichloroethane -1,2-Dichloroethene	/ + - + -	. 7 \	<u>.</u>	10	!U	i.
,	67-66-3		1000	3 1 1 _	<u>'</u> ;	10	ΙU	ì
1	107-04-7	-1,2-Dichloroethane			<u>'</u>	10	!U	i
•	70-03-7	-1,2-bichioroethane			<u></u> :	10	IU	1
i I	71-55-4	-2-Butanone -1,1,1-Trichloroeth			!	10	! U	1
1	/1-33-6	-1,1,1-(r)cnloroeth	sue		!	10	!U	ŧ
i	75 77 4	-Carbon Tetrachlori	ge		!	10	IU	ł
	73-27-4	-Bromodichlorometha	ne		¦	10	l U	ŧ
	/8-8/-5	-1,2-Dichloropropan	e		!	10	¦U	i
i	10061-01-5	-cis-1.3-Dichloropr	opene		!	10	:U	ł
i	79-01-6	-Trichloroethene			!	10	:U	1
i	124-48-1	-Dibromochlorometha	ne		1	10	l U	i
•	79-00-5	-1.1.2-Trichloroath	200		•	10	:U	1
1	71-43-2	-Benzene			!	10	‡U	i
i	10061-02-6	-Benzene -trans-1,3-Dichloro	propen	e		10	١U	1
i	75-25-2	-Bromoform			I	10	:U	-
į	108-10-1	-4-Methyl-2-Pentano	ne			10	ΙÜ	}
1	271-78-6	-2-Hexanone			!	10	10	į
;	12/-10-4	-letrachioroethene			- 1	10	i U	i
1	79-34-5	-1,1,2,2-Tetrachlor	oethan	е	1	10	١Ū	!
ļ	108-88-3	-Toluene			:	10	10	!
1	108-90-7	-Chlorobenzene				10	10	
į	100-41-4	-Ethylbenzene			'	2	i J	1
	100-42-5	-Styrene	····		'	10	10	1.
;	1330-20-7	-Styrene -Xylene (total)			 ¦	10		i
;		Agrene (Cocar)			:	10	រូប	i ,
•	· · · · · · · · · · · · · · · · · · ·				' '		_ i	i

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02RB05AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247050

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: 0VP08179302

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: not dec.

Date Analyzed: 08/17/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

1			1			į.	1		1			1		i
į	CAS	NUMBER	1	COMPOUND	NAME	}	1	RT	ł	EST.	CONC.	i	Q	į
: =	=====	=======	= ; =	=======================================	=====	=====	:==	=====	=	=====	=====	= }	=====	į
1_			_				!		_			_ ;		+

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

| 02SB16BA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245835

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08149301

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec. 27

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

		CONCENTRATION UNITS:	
NO.	COMPOUND	(uo/i or uo/ko) NG/KG	

	CAS NO.	COMPOUND	(ug/L				UG/KG			Q	
1		TO THE RESIDENCE OF THE PARTY O	······································		i	·			ŧ		
!	74-87-3	-Chloromethane			!		1	4		i	
ł	74-83-9	-Bromomethane			į		1	4	١U	;	
;	75-01-4	-Vinyl Chloride					1	4	ΙU	1	
ļ	75-00-3	-Chloroethane			1		1	4	ΙU	ŀ	
1	75-09-2	-Methvlene Chloride)		:		1	4	ΙU	ŀ	
¦	67-64-1	-Acetone -Carbon Disulfide			l		27	0	ŀ	!	
i.	75-15-0	-Carbon Disulfide			1		1	4	!U	ŧ	
ł	75-35-4	-1,1-Dichloroethene			!		1	4	۱U	1	
Ī	75-34-3	-1,1-Dichloroethane	•		!		1	4	:U	;	
1	540-59-0	-1,2-Dichloroethene	(tota	1)_			1	4	١U	1	
;	67-66-3	-Chloroform -1,2-Dichloroethane			I		1	4	ΙU	;	
ŧ	107-06-2	-1,2-Dichloroethane			!		1	4	۱U	i i	
ŀ	78-93-3	-2-Butanone			ļ		1	4	١U	1	
ŀ	71-55-6	-1,1,1-Trichloroeth	ane		_ 1		1 -	4	ŧυ	1 2	
i	56-23-5	-Carbon Tetrachlori	de				1	4	١U	1	
ł	75-27-4	-Bromodichlorometha	ne		:		1	4	ΙU	;	
1	78-87-5	-1,2-Dichloropropan	e		1		1	4	!U	:	
į	10061-01-5	-cis-1,3-Dichloropr	opene				1	4	ΙU	1	
ţ	79-01-6	-Trichloroethene			- 1		1	4	IU	1	
ļ	124-48-1	-Dibromochlorometha	ne		:		1.	4	! U	;	
1	79-00-5	-1,1,2-Trichloroeth	ane				1	4	IU		
ļ	71-43-2	-Benzene					1	4	IU	1	
į	10061-02-6	-trans-1.3-Dichloro	propen	e	1		1	4	IU	ì	
ł	75-25-2	-Bromoform	•				1	4	ΙÜ	1	
:	108-10-1	-4-Methvl-2-Pentano	ne		ł		1	4	ΙŪ	1	
ŧ	591-78-6	-2-Hexanone			;		1	4	ΙŪ		
į	127-18-4	-Tetrachloroethene_					1	4	ΙŪ	;	
ł	79-34-5	-1,1,2,2-Tetrachlor	oethan	16			1.	4	١U		
!	108-88-3	-Toluene			!		1.		IU		
i	108-90-7	-Chlorobenzene	· · · · · · · · · · · · · · · · · · ·		;		1	•	ιυ	,	
į	100-41-4	-Ethylbenzene		·· ··	<u></u> ¦		1	•	: U	1	
•	100-42-5	-Styrene					1.	•	: U	,	
į	1330-20-7	-Xylene (total)			:		1	-	: 0	1	
•	**************************************	varene (coral)			—;		1.	7	ı W	1	
٠.					·				-'	i	

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB16BA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245835

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: OVPO8149301

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec. 27

Date Analyzed: 08/14/93

Dilution Factor: 1.0

GC Column: CAP ID: 0.530 (mm)

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |

VOLATILE ORGANICS ANALYSIS DATA SHEET

02SB16BARE

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245835RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08159301

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec. 27

Date Analyzed: 08/15/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND		RATION UNIT ' ug/Kg) U0		Q	
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4	ChloromethaneBromomethaneVinyl ChlorideChloroethaneMethylene ChlorideAcetoneCarbon Disulfide1,1-Dichloroethar	ie		14 14 14 14 14 14 14	 	
67-66-3 107-06-2 78-93-3 71-55-6 56-23-5 75-27-4	1,1,1-:ricnioroet Carbon Tetrachlor Bromodichlorometh 1,2-Dichloropropa	hane hane ane		14 14 14 14 14 14	: U : U : U : U : U : U : U : U : U : U	
10061-01-5 79-01-6 124-48-1 79-00-5 71-43-2 10061-02-6	cis-1,3-Dichlorop Trichloroethene_ Dibromochlorometh 1,1,2-Trichloroet Benzene_ trans-1,3-Dichlor Bromoform_ 4-Methyl-2-Pentan	ropene		14 14 14	10 10 10 10 40 10	
591-78-6 127-18-4 79-34-5 108-88-3 108-90-7 100-41-4 100-42-5	2-Hexanone Tetrachloroethene 1,1,2,2-Tetrachlo Toluene Chlorobenzene Ethylbenzene	roethane_		14 14 14 14 14 14	:U :U :U :U :U :U :U :U	

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB16BARE

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

% Moisture: not dec. 27

Lab Sample ID: H245835RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: DVP08159301

Date Received: 08/05/93

Level: (low/med) LOW

Date Analyzed: 08/15/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME ! RT ! EST. CONC. ! Q !

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

: 02SB18BA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246038

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08139308

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec. 21

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

	CHO NO.	compone (dd)	r ov adveds c	JOZNO	إنا	
ŧ		**	1		I I	;
1	74-87-3	Chloromethane	I	13	١U	;
- 1	74-83-9	Bromomethane	!	13	!U	1
į	75-01-4	Vinyl Chloride		13	l U	ł
;	75-00-3	Chloroethane	1	13	10	ŀ
:	75-09-2	Methvlene Chloride	;	13	l U	ļ
1	67-64-1	Acetone	!	13	:U	1
. i	/5-15-0	Carbon Disulfide	i	13	10	1
i	75-35-4	1,1-Dichloroethene	t	13	۱U	į
į	75-34-3	1,1-Dichloroethane		13	:U	;
ŀ	540-59-0	1,2-Dichloroethene (to	tal):	13	١U	1
ł	67-66-3	Chloroform	1	13	l U	ł
i	107-06-2	1,2-Dichloroethane	1 t	13	۱U	1
f	78-93-3	2-Butanone	i	13	!U	ļ
i	71-55-6	1,1,1-Trichloroethane	!	13	۱U	1
i	56-23-5	Carbon Tetrachloride	i	13	:U	I I
1	75-27-4	Bromodichloromethane	1	13	:U	!
¦	78-87-5	1,2-Dichloropropane		13	:U	¦
ī	10061-01-5	cis-1,3-Dichloropropen	e i	13	:U	1
ļ	79-01-6	Trichloroethene	ł	13	:U	;
ļ	124-48-1	Dibromochloromethane	ł	13	١U	1
i	79-00-5	1.1.2-Trichloroethane	i	13	l U	:
ŧ	71-43-2	Benzene	į	13	:U	ŧ
:	10061-02-6	trans-1.3-Dichloroprop	ene !	13	:U	;
1	75-25-2	Bromoform	1	13	:U	;
i	108-10-1	4-Methyl-2-Pentanone	į.	13	10	į
1	591-78-6	2-Hexanone	<u> </u>	13	١U	i
ŀ	127-18-4	Tetrachloroethene	ŧ	13	:U	1
t i	79-34-5	1,1,2,2-Tetrachloroeth	ane :	13	IU	:
		Toluene		13	1U	;
į	108-90-7	Chlorobenzene	†	13	IU	1
i	100-41-4	Ethylbenzene		13	IU	1
ì	100-42-5	Stvrene	· · · · · · · · · · · · · · · · · · ·	13	١Ü	;
	1330-20-7	Styrene_ Xylene (total)	· · · · · · · · · · · · · · · · · · ·	13	lU	į
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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB18BA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246038

Sample wt/vol: 5.0 (g/mL) G

Lab File ID:

DVP08139308

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec. 21

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found:

(ug/L or ug/Kg) UG/KG

! !:	CAS NUI	======;= .1DEV	COMPOUND	-	RT =====		CONC.		
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1 A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02SB19AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246697

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08149303

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: not dec. 27

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

•			1	
74-87-3	Chloromethane	14	U	;
74-83-9	Bromomethane	14	IU	!
75-01-4	Vinyl Chloride!	14	ΙŪ	-
75-00-3	Chloroethane	14	ΙŪ	1
75-09-2	Methylene Chloride :	13	IJ	1
67-64-1	Acetone Carbon Disulfide	14	ΙU	1
75-15-0	Carbon Disulfide !	14	ΙU	1
75-35-4	1.1-Dichloroethene ;	14	10	`;
75-34-3	1,1-Dichloroethane	14	! U	į
540-59-0	1,1-Dichloroethane 1,2-Dichloroethene (total)	14	۱U	1
67-66-3	Chloroform¦	14	١U	;
107-06-2	Chloroform 1,2-Dichloroethane	14	١U	1
78-93-3	2-Butanone :	14	ΙU	;
71-55-6	1,1,1-Trichloroethane:	14	ΙU	ļ
56-23-5	Carbon Tetrachloride:	14	10	ł
75-27-4	Bromodichloromethane	14	١U	!
78-87-5	1,2-Dichloropropane!	14	!U	;
10061-01-5-	cis-1,3-Dichloropropene:	14	١U	1
79-01-6	Trichloroethene!	14	ŧυ	!
124-48-1	Dibromochloromethane	14	١U	;
79-00-5	1,1,2-Trichloroethane	14	١U	ŀ
71-43-2	Benzene!	14	-‡U	1
10061-02-6-	trans-1,3-Dichloropropene!	14	¦U	1
	Bromoform!	14	١U	;
108-10-1	4-Methyl-2-Pentanone;	14	۱U	;
591-78-6	2-Hexanone	14	١U	;
127-18-4	Tetrachloroethene	14	ΙU	1
79-34-5	: 1,2,2-Tetrachloroethane:	14	١U	1
108-88-3	Toluene	14	١U	i
108-90-7	Chlorobenzene;	14	10	1
100-41-4	Ethylbenzene :	14	IU	1,
100-42-5	Styrene	14	1 U	ļ
1330-20-7	Xylene (total):	14	IU	ŀ
			1	:

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

025B19AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246697

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: OVP08149303

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: not dec. 27

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02RB03AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246698

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08149306

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: not dec.

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

	CAS NO.	СОМРОИИD		RATION U r ug/Kg)		٦)
1				1		i i	
i	74-87-3	Chloromethane	·····	<u> </u>	10	!U	!
i	74-83-9	-Bromomethane			10	ΙU	ł
i	75-01-4	Vinyl Chloride		!	10	10	ł
i	75-00-3	Chloroethane			10	l U	;
i	75-09-2	-Methylene Chloride	***************************************	¦	4	ΙJ	i
i	6/-64-1	-Acetone		¦	10	ΙU	1
i	/5-15-0	Carbon Disulfide		!	10	١U	:
i	75-35-4	-1,1-Dichloroethene		l	10	١U	i
i	75-34-3	-1,1-Dichloroethane			10	l U	;
i	540-59-0	-1.2-Dichloroethene	(total) ;	10	ΙU	1
ł	67-66-3	Chloroform		!	10	!U	1
i	10/-06-2	-1,2-Dichloroethane		ł	10	ΙU	!
i	78-93-3	2-Butanone	- · · · · · · · · · · · · · · · · · · ·	!	10	١U	1
1	71-55-6	-1,1,1-Trichloroeth	ane	!	10	l U	ł
ì	56-23-5	Carbon Tetrachlori	de	<u></u> {	10	:U	!
ŀ	75-27-4	-Bromodichlorometha	ne		10	١U	1
-	78-87-5	-1,2-Dichloropropan	e		10	١U	:
ï	10061-01-5	-cis-1,3-Dichloropr	opene	1	10	١U	;
į	79-01-6	-Trichloroethene		į.	10	ΙU	ļ
1	124-48-1	-Dibromochlorometha	ne	1	10	١U	ł
1	79-00-5	-1.1.2-Trichloroeth	ane	!	10	: U	ŀ
ł	71-43-2	-Benzene		i	10	ŧυ	1
1	10061-02-6	-trans-1.3-Dichloro	propene	:	10	ΙU	;
l	75-25-2	-Bromoform			10	ΙU	ŀ
ŀ	108-10-1	-4-Methvl-2-Pentano	ne	!	10	IU	1
1	591-78-6	-2-Hexanone		1	10	IШ	1
i	12/-18-4	-Tetrachloroethene		1	10	10	i
i	79-34-5	-1,1,2,2-Tetrachlor	oethane		10	ΙŪ	i
;	108-88-3	-Toluene		:	10	i U	:
į	108-90-7	-Chlorobenzene		·	10	10	
i	100-41-4	-Ethylbenzene		<u></u> '	10	10	1
i	100-42-5	-Styrene		'	10	1U	1
i	1330-20-7	-Xylene (total)	·	<u>'</u>	10	. –	i
ť	1000 10 /	Ny Tene (COCAT)		<u>'</u>	10	i U	i

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name:

PACE INC.

Contract: ELLINGTON

02RB03AA

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246698

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: OVPO8149306

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: not dec.

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

| COMPOUND NAME | RT | EST. CONC. | Q | CAS NUMBER | -----|

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02SB20BA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245836

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08149302

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec. 25

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NO.	COMPOUND	(ug/L			UG/KG			Q
1					!			i	1
i	74-8/-3	Chloromethane			- <u>:</u>	13		!U	1
i	/4-83-Y	Bromomethane			_!	13		١U	i
i	75-01-4	Vinyl Chloride			_¦	13		:U	ł
ì	75-00-3	Chloroethane Methylene Chloride			_	13		۱U	<u>:</u> 1
i	75-09-2	Methylene Chloride	=		_1	13		:U	;
į	67-64-1	Acetone Carbon Disulfide_			_	13	;	١U	ł
;	75-15-0	Carbon Disulfide_			_ {	13	;	١U	! !
ŀ	<i>7</i> 5-35-4	1,1-Dichloroethen	2		!	13	;	!U	ŀ
;	75-34-3	1,1-Dichloroethane	2		}	13	,	ΙU	1
i	540-59-0	1.2-Dichloroethene	e (tota	1)	1	13		:U	1
i	67-66-3	Chloroform			_	13		ΙU	-
į	107-06-2	Chloroform_ 1,2-Dichloroethane	<u> </u>		<u></u>	13		١U	!
1	78-93-3	2-Butanone			1	13		١U	1
ì	71-55-6	1,1,1-Trichloroeth	nane		ŀ	13		١U	1
ï	56-23-5	Carbon Tetrachlor:	ide		1	13		١U	ŧ
į	75-27-4	Bromodichlorometha	ane		:	13		١U	;
:	78-87-5	1,2-Dichloropropa	ne		-	13		١U	. ;
ŀ	10061-01-5	cis-1.3-Dichlorop:	ropene		1	13		ΙU	1
ļ	79-01-6	Trichloroethene			1	13		ΙŪ	
ĭ	124-48-1	Dibromochlorometha	ane		-	13		IU	}
!	79-00-5	1.1.2-Trichloroeth	nane		!	13		ĪŪ	i
!	71-43-2	Benzene			- 1			ΙÜ	
:	10061-02-6	Bénzene trans-1,3-Dichloro	ppropen	e		13		10	i
ŀ	75-25-2	Bromoform	• •		- 1	13		IU	
ŀ	108-10-1	4-Methvl-2-Pentano	one		1	13		IU	
1	591-78-6	2-Hexanone			- ` !	13		١U	
1	127-18-4	Tetrachloroethene			- !	13		ΙŪ	:
1	79-34-5	1,1,2,2-Tetrachlor	oethan	e	- ;	13		10	:
ŀ	108-88-3	Toluene	<u></u>		- 1	13		;U	:
	108-90-7	Chlorobenzene	·····			13		IU	1
	100-41-4	Ethylbenzene			-;	13		10	!
;	100-42-5	Styrene		·····	_; !	13		10	•!
	1330-20-7	Xylene (total)			-¦	13		10	1
,		Ayrene (000al/			-;	10			1
٠.					'				

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB20BA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245836

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: OVP08149302

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec. 25

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found:

(ug/L or ug/Kg) UG/KG

١.			_ ;			!		1			ŧ		. 1
	======		= }			; =:	======	1	======	=====	; =	====	. 1
ľ	CAS N	JMBER	;	COMPOUND	NAME	1	RT	ŀ	EST.	CONC.	ŀ	Q	i
ŧ			ł			i		i			i		i

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02SB26BA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247049

Sample wt/vol: 5.0 (g/mL) G Lab File ID: OVP08179301

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: not dec. 21

Date Analyzed: 08/17/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Q

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND	(ug/L or ug/Kg) UG/KG
------------------	-----------------------

	CHO NO.	CONFOOND (AGYE OF A)	ayyay ooyko		•
			1	!	!
i (74-87-3	Chloromethane	_¦ 13	١U	į į
ŀ	74-83-9	Bromomethane	_; 13	ΙU	1
!	75-01-4	Vinyl Chloride	_{ } 13	ΙU	i
1	75-00-3	Chloroethane Methylene Chloride	13	١U	;
ŀ	75-09-2	Methylene Chloride	_¦ 13	١U	1
!	67-64-1	AcetoneCarbon Disulfide	_! 370	ŀΕ	ŀ
ļ	75-15-0	Carbon Disulfide	_{ 13	:U	1
1	75-35-4	1,1-Dichloroethene	_¦ 13	١U	ŧ
f	75-34-3	1,1-Dichloroethane	_ 13	١U	i
i	540-59-0	1,1-Dichloroethane	_{ 13	١U	ŀ
				١U	ł
i t	107-06-2	Chloroform 1,2-Dichloroethane	_! 13	١U	ŀ
;	78-93-3	2-Butanone	_¦ 47	ł	ŀ
:	71-55-6	1,1,1-Trichloroethane	_{ 13	ΙU	ł
		Carbon Tetrachloride		:U	f
ŀ	75-27-4	Bromodichloromethane	_{ 13	ΙU	ţ
i	78-87-5	1,2-Dichloropropane	_; 13	l U	ŀ
î	10061-01-5	cis-1,3-Dichloropropene	_¦ 13	! U	Į į
ŧ	79-01-6	Trichloroethene	_{ 13	:U	:
ŀ	124-48-1	Dibromochloromethane	_ 13	١U	i
į	79-00-5	1,1,2-Trichloroethane	_{ 13	ŧυ	;
i	71-43-2	Benzene	_{ 13	١U	!
¦	10061-02-6	trans-1,3-Dichloropropene	_! 13	١U	į
		Bromoform		١U	ŧ
!	108-10-1	4-Methyl-2-Pentanone	_} 13	i U	;
!	591-78-6	2-Hexanone	_{ 13	۱U	ŧ.
!	127-18-4	Tetrachloroethene	_{ 13	ΙU	;
;	79-34-5	1,1,2,2-Tetrachloroethane	_ _ 13	ΙU	1
!	108-88-3	Toluene	_{1} 2	: J	;
		Chlorobenzene		١U	į
!	100-41-4	Ethylbenzene	170	;	
:	100-42-5	Styrene	_{ 13	١U	ł
;	1330-20-7	Xylene (total)	43	1	1
ì					1

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB26BA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247049

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08179301

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: not dec. 21

Date Analyzed: 08/17/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02SB26BADL

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247049DL

Sample wt/vol: 1.0 (g/mL) G

Lab File ID: OVP08249301

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: not dec. 21

Date Analyzed: 08/24/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 5.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	(ug/L or ug/	(g) UG/KG		O
!		1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	:		ŀ	
ŀ	74-87-3	Chloromethane	<u> </u>	63	ΙU	!
!	74-83-9	Bromomethane	į	63	١U	1
•	75-01-4	Vinyl Chloride		63	ΙU	!
I	75-00-3	Vinyl Chloride Chloroethane Methylene Chlorid		63	١U	!
	75-09-2	Methylene Chlorid	e	63	۱U	ļ
i	6/-64-1	ACETONE	;	540	† D	!
1	/5-15-0	Carbon Disulfide	1	63	ΙU	ł
i	/5-35-4	1,1-Dichloroethen	e;	63	ΙU	:
	75-34-3	1,1-Dichloroethan	e :	63	ΙU	1
:	540-59-0	1,2-Dichloroethen	e (total)!	63	١U	:
i	67-66-3	Chloroform		63	ΙU	;
ļ	107-06-2	1,2-Dichloroethan:	₽:	63	: U	;
	78-93-3	2-Butanone		65	! D	:
l	71-55-6	1,1,1-Trichloroet	nane	63	ΙU	ŧ
i	56-23-5	Carbon Tetrachlor	ide!	63	:U	1
1	75-27-4	Bromodichlorometh	ane!	63	ΙU	}
İ	78-87-5	1,2-Dichloropropa	ne!	63	ΙU	1
		cis-1,3-Dichlorop			١U	ł
	79-01-6	Trichloroethene		63	10	1
	124-48-1	Dibromochlorometh	ane!	63	ΙU	1
	79-00-5	1,1,2-Trichloroet	nane!	63	١U	1
	71-43-2	Benzene		63	١U	ł
ļ	10061-02-6	trans-1,3-Dichlore	opropene!	63	ïυ	;
	75-25-2	Bromoform	Į.	63	ΙU	1
	108-10-1	4-Methyl-2-Pentane	one :	63	10	ł
	591-78-6	2-Hexanone	<u> </u>	63	ΙU	1
	127-18-4	Tetrachloroethene	t	63	١U	;
ŀ	79-34-5	1,1,2,2-Tetrachlo	roethane	63	١U	1
l	108-88-3	Toluene	t	63	:U	;
ŀ	108-90-7	Chlorobenzene	!	63	١U	ŧ
!	100-41-4	Ethylbenzene	!	79	! D	}
	100-42-5	Styrene	i i	63	ΙU	!
ŀ	1330-20-7	Xylene (total)		63		1
!		-			1	

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB26BADL

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247049DL

Sample wt/vol: 1.0 (g/mL) 6

Lab File ID: 0VP08249301

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: not dec. 21

Date Analyzed: 08/24/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 5.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

| RT | EST. CONC. | Q | CAS NUMBER ł COMPOUND NAME | ========= | ====== | ======= | ===== | ===== | ===== | ===== | ===== |

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02TB01AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Sample wt/vol: 5.0 (g/mL) G

Lab Sample ID: H245842

Lab File ID: OVP08139304

Level: (low/med) LOW

Date Received: 08/05/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

% Moisture: not dec.

(uL)

Soil Aliquot Volume: (uL)

Date Analyzed: 08/13/93

CONCENTRATION UNITS: (up/L or up/Ko) NE/KE

CAS NO.		g/L or ug/Kg)		G)
		į		!	[
1 74-87-3	Chloromethane		10	I U	ł
1 74-83-9	Bromomethane		10	I U	1
75-01-4	Vinyl Chloride		10	: U	ł
1 75-00-3	Chloroethane		10	١U	;
75-09-2	Methylene Chloride		10	:U	;
67-64-1	Acetone Carbon Disulfide	<u> </u>	10	۱U	ł
1 75-15-0	Carbon Disulfide	ļ	10	: U	1
: 75-35-4	1,1-Dichloroethene	1	10	l U	ł
1 75-34-3	1,1-Dichloroethane	!	10	ΙU	i
1 540-59-0	1,2-Dichloroethene (total):	10	١U	į
67-66-3	Chloroform	<u> </u>	10	!U	į
107-06-2	1,2-Dichloroethane	i	10	١U	ŀ
78-93-3	2-Butanone	<u> </u>	10	١U	ŧ
71-55-6	1,1,1-Trichloroethan	= !	10	١U	:
56-23-5	Carbon Tetrachloride	<u> </u>	10	١U	ŀ
75-27-4	Bromodichloromethane	I	10	ΙU	-
78-87-5	1,2-Dichloropropane_	I	10	ΙU	ŀ
10061-01-5	cis-1,3-Dichloroprop	ene!	10	I U	ŧ
79-01-6	Trichloroethene	t	10	ΉU	ŧ
124-48-1	Dibromochloromethane	1	10	١U	į.
79-00-5	1,1,2-Trichloroethan	a	10	١U	1
71-43-2	Benzene	¦	10	ΙU	ł
10061-02-6	trans-1,3-Dichloropr	opene !	10	١U	į
75-25-2	Bromoform		10	١U	i i
108-10-1	4-Methyl-2-Pentanone	;	10	ΙU	ł
591-78-6	2-Hexanone	<u> </u>	10	ΙU	:
127-18-4	Tetrachloroethene	1	10	ΙÜ	
79-34-5	1,1,2,2-Tetrachloroe	thane !	10	١U	ŧ
	Toluene		10	!ប	1
108-90-7	Chlorobenzene		10	1U	ł
100-41-4	Ethylbenzene		10	10	· .
100-42-5	Stvrene	·	10	iu	!
1330-20-7	Styrene Xylene (total)	<u> </u>	10	10	:
!	agazne voorter	 ;			;

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

1000055 SAMPLE NO.

02TB01AA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245842

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08139304

Level: (low/med) LOW

Date Received: 08/05/93

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

% Moisture: not dec.

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

COMPOUND NAME | RT | EST. CONC. | Q | CAS NUMBER

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02TB02AA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245843

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: DVP08139305

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q

i			1	i	
ł	74-87-3	Chloromethane		١U	1
ł	74-83-9	Bromomethane	10	١U	ł
į	75-01-4	Vinyl Chloride	10	ŀU	F
ľ	75-00-3	Chloroethane	10	۱U	1
i	75-09-2	Methylene Chloride	10	١U	i
ť	67-64-1	Acetone	10	ΙU	1
i	75-15-0	Carbon Disulfide	10	١U	ŀ
i	75-35-4	1,1-Dichloroethene	10	١U	;
i	75-34-3	1,1-Dichloroethane	10	10	1
1	540-59-0	1.2-Dichloroethene (total)	10	١U	1
1	67-66-3	Chloroform	10	l U	1
1	107-06-2	Chloroform	10	١U	1
t I	78-93-3	2-Butanone 1,1,1-Trichloroethane	10	ΙU	;
ł	71-55-6	1,1,1-Trichloroethane	10	١U	ł
ł	56-23-5	Carbon Tetrachloride	10	١U	ŀ
ŧ	75-27-4	Bromodichloromethane	10	١U	1
1	78-87-5	1,2-Dichloropropane	10	ΙŪ	1
ì	10061-01-5	cis-1,3-Dichloropropene	10	١Ü	1
!	79-01-6	Trichloroethene	10	10	;
:	124-48-1	Dibromochloromethane	10	ίŪ	:
!	79-00-5	1,1,2-Trichloroethane	10	10	i
;	71-43-2	Benzene	10	- 1 U	ì
;	10061-02-6	trans-1,3-Dichloropropene		. —	:
:	75-25-2	Bromoform	10	ΙU	
	108-10-1	4-Methyl-2-Pentanone	10	iŭ	:
		2-Hexanone		IU	:
	127-18-4	Tetrachloroethene	10	ΙŪ	
;	79-34-5	1,1,2,2-Tetrachloroethane	10	ΙU	•
•	108-88-3	Toluene	10	: U	•
:	108-90-7	Chlorobenzene	10	١U	•
!	100-41-4	Ethylbenzene	10	10	!
!	100-42-5	C+VPODO	10	: U	1.
į	1330-20-7	Styrene Xylene (total)	10		i
1	1000-20-/	Ayrene (COCAT)	10	!U	i
1	· ·		i	i	i

1000057 SAMPLE NO.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:

PACE INC.

Contract: ELLINGTON

OZTBOZAA

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245843

Sample $\omega t/vol$: 5.0 (g/mL) G

Lab File ID: OVPOB139305

Level: (low/med) LOW

GC Column: CAP ID: 0.530 (mm)

Date Received: 08/05/93

% Moisture: not dec.

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Date Analyzed: 08/13/93

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

1			1			;		i			;		ţ
!	CAS	NUMBER	:	COMPOUND	NAME	1	RT	!	EST.	CONC.	1	Q	1
; =	====	=======	:	========		! ==	=====	; =	====:	=====	= ; :	=====	=
!_			. !			!		!			_		_ ;

1 A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1 02TB03AA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246044

Date Analyzed: 08/13/93

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08139307

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec.

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

	CAS NO.	COMPOUND	(ug/L			UG/KG		Q
į.					1		1	!
i	74-87-3	-Chloromethane			i	10		;
i	74-83-9	-Bromomethane				10		!
į	75-01-4	-Vinyl Chloride			<u> </u> ¦	10	١U	1
i	75-00-3	-Chloroethane			i	10	١U	}
:	75-09-2	-Methvlene Chloride)		1	10	:U	!
ŀ	67-64-1	-Acetone				10	١U	1
1	. 75-15-0	-Carbon Disultide			i	10	١U	Ļ
į	75-35-4	-1,1-Dichloroethene			!	10	١U	ĺ
I	75-34-3	-1,1-Dichloroethane			:	10	١U	ţ
!	540-59-0	-1,2-Dichloroethene	(tota	1)_	!	10	ΙU	1
ţ	67-66-3	-Chloroform			!	10	١U	!
ļ	107-06-2	-1,2-Dichloroethane	•		:	10	١U	1
t	78-93-3	-2-Butanone			!	10	IU	!
I f	71-55-6	-1,1,1-Trichloroeth	ane		{	10	١U	!
		-Carbon Tetrachlori				10	١U	;
ŧ	75-27-4	-Bromodichlorometha	ne		:	10	١U	ł
		-1,2-Dichloropropan				10	١U	1
		-cis-1,3-Dichloropr				10	١U	:
		-Trichloroethene				10	١U	t 1
ŀ	124-48-1	-Dibromochlorometha	ne		!	10	١U	!
		-1,1,2-Trichloroeth				10	ΙU	!
	71-43-2				<u> </u>	10	١U	ļ.
		-trans-1.3-Dichloro	proper	n e	į.	10	١U	;
		-Bromoform				10	١U	;
ŀ	108-10-1	-4-Methyl-2-Pentanc	ne			10	ΙU	1
į	591-78-6	-2-Hexanone			1	10	١U	1
:	127-18-4	-Tetrachloroethene_			;	10	10	1
1		-1,1,2,2-Tetrachlor				10	١U	ł
1	108-88-3	-Toluene			{	10	:U	1
1	108-90-7	-Chlorobenzene			}	10	١U	ŀ
1		-Ethylbenzene				10	١U	1.
ŀ		-Styrene				10	١U	ŀ
ŧ		-Xylene (total)				- 10	١U	1
i	-				!		_ !	<u> </u>

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

OZTBOJAA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246044

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08139307

Level: (low/med) LDW

Date Received: 08/06/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02TB04A

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246708

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: OVP08149307

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: not dec.

Date Analyzed: 08/15/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND	(ug/L or ug/Kg) UG/KG	Q
------------------	-----------------------	---

	CHO NO.	COLL DONE	radic on adivi	11 00140	بدا	
-	***************************************	 	<u> </u>		ŀ	
	74-87-3	Chloromethane	<u> </u>	10	١U	1
	74-83-9	Bromomethane	ŀ	10	١U	ţ
	75-01-4	Vinyl Chloride	1	10	! U	ţ
	75-00-3	Chloroethane	1	10	:U	ł
	75-09-2	Methylene Chlorid	e !	10	10	1
	67-64-1	Acetone	1	10	ŀШ	;
	/5-15-0	Carbon Disulfide_	i	10	: U	1
	75-35-4	1,1-Dichloroethen	e¦	10	ΙU	ļ
	75-34-3	1,1-Dichloroethan	e!	10	١U	1
	540-59-0	1,2-Dichloroethen	e (total)¦	10	ΙU	;
	67-66-3			10	ΙU	1
	107-06-2	1,2-Dichloroethan	e	10	:U	¦
	78-93-3	2-Butanone	1	10	ΙU	;
	71-55-6	1,1,1-Trichloroet	hane	10	IU	ţ
	56-23-5	Carbon Tetrachlor	ide	10	IU	;
	75-27-4	Bromodichlorometh	ane	10	۱U	:
	78-87-5	1,2-Dichloropropa	ne!	10	l U	i
	10061-01-5	cis-1,3-Dichlorop	ropene	10	ΙU	;
	79-01-6	Trichloroethene	;	10	I U	į
	124-48-1	Dibromochlorometh	ane !	10	IU	:
	79-00-5	1,1,2-Trichloroet	hane :	10	ΙU	:
	71-43-2	Benzene		10	4U	ļ
	10061-02-6	trans-1,3-Dichlor	opropene :	10	:U	ŧ
	75-25-2	Bromoform		10	!U	ł
	108-10-1	4-Methyl-2-Pentan	one !	10	!U	1
	591-78-6	2-Hexanone	<u> </u>	10	١U	!
	127-18-4	Tetrachloroethene		10	l U	į
	79-34-5	1,1,2,2-Tetrachlo	roethane !	10	١U	ŀ
	108-88-3	Toluene		10	ΙŪ	:
	108-90-7	Chlorobenzene	·	10	ΙU	•
	100-41-4	Ethylbenzene	2	10	iŪ	ļ
	100-42-5	Styrene	· · · · · · · · · · · · · · · · · · ·	10	lU	!
	1330-20-7	Xylene (total)		10	iU	:
					!	;

1 E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02TB04A

Contract: ELLINGTON

Lab Name: PACE INC.

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246708

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08149307

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: not dec.

Date Analyzed: 08/15/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

; =	====:	=======	: ====== !	========	========	;==	=====	= ; = !	====:	=====:	= ; !	=====	i
	LHO	NOMBER				1		. 1					,
1		NUMBER	1	COMPOUND	NAME	1	RT	1	CCT	CONC.	•	n	1
ŀ			1			;		ì			i		i

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

OZTBO5AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247051

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08179303

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: not dec.

Date Analyzed: 08/17/93

CONCENTRATION UNITS:

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

	CAS NO.	COMPOUND	ND (ug/L or ug				Q
1				<u>!</u>			
1	74-87-3	Chloromethane		I	10	١U	1
i i	/4ー6シーゲーーーー-	Bromomethane			10	١U	ţ
- :	/5-()1-4	Vinvl Chlorida		į.	10	١U	!
1	75-00-3	Chloroethane Methylene Chloride		}	10	10	1
1	75-09-2	Methylene Chloride	2		10	ΙU	1
1	67-64-1	Acetone Carbon Disulfide_		!	10	۱U	i
į	75-15-0	Carbon Disulfide_		1	10	ΙU	-
•	/5ー35ー4ーーーーー-	1.1-Dichloroethen:	3	!	10	ΙU	1
ł	75-34-3	1,1-Dichloroethane 1,2-Dichloroethene	•	1	10	ΙÜ	ì
i	540-59-0	1,2-Dichloroethene	(total)	<u> </u>	10	:U	;
!	67-66-3	Chloroform		!	10	ΙU	1
i	107-06-2	Chloroform_ 1,2-Dichloroethane	•	<u> </u>	10	١U	ŧ
ł	78-93-3	2-Butanone 1,1,1-Trichloroeth		l `	10	ΙU	1
į	71-55-6	1,1,1-Trichloroeth	nane	 	10	١U	1
- 1	56-23-5	Carbon Tetrachlor:	ide	ļ.	10	١U	ł
1	75-27-4	Bromodichlorometha	ane	1	10	١U	ŧ
į	78-87-5	1,2-Dichloropropar	ne	ł	10	ΙU	1
į	10061-01-5	cis-1,3-Dichlorop:	opene	;	10	!U	1
1	79-01-6	Trichloroethene		:	10	ΙU	ł
1	124-48-1	Dibromochlorometha	ane	1	10	١U	!
ţ	79-00-5	1,1,2-Trichloroeth	nane		10	١U	1
i	71-43-2	Benzene		;	10	١U	:
i	10061-02-6	trans-1,3-Dichloro	propene_	1	10	١U	1
į	75-25-2	Bromoform		ŧ	10	ΙU	i
ŀ	108-10-1	4-Methyl-2-Pentand	one	;	10	10	;
1	591-78-6	2-Hexanone		ł	10	١U	į.
ŀ	127-18-4	Tetrachloroethene		1	10	ΙÜ	•
!	79-34-5	1,1,2,2-Tetrachlor	oethane		10	١U	1
i	108-88-3	Toluene		:	10	IU	į
1	108-90-7	Chlorobenzene		:	10	10	
i	100-41-4	Ethylbenzene		· ·	10	Ιυ	, <u>,</u>
1	100-42-5	Styrene			10	ΙÜ	! !
ł	1330-20-7	Xylene (total)			10	ΙŪ	;
			·	······································		. —	•

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02TB06AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247051

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08179303

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: not dec.

Date Analyzed: 08/17/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

VBLKOM

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOM

Sample wt/vol: 5.0 (g/mL) G

Lab File ID:

DVB08139301

Level: (low/med) LOW

Date Received:

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

% Moisture: not dec.

(uL)

Soil Aliquot Volume:

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO. COMPOUND | 74-87-3-----Chloromethane_____ 10 10 1 74-83-9----Bromomethane 10 111 : 75-01-4-----Vinyl Chloride_____ 10 :U | 75-00-3-----Chloroethane__ 10 !U 10 !U : 75-09-2----Methylene Chloride_____ 10 IU : 67-64-1-----Acetone_ 10 !U | 75-15-0-----Carbon Disulfide : 75-35-4----1,1-Dichloroethene____ 10 10 10 IU : 75-34-3-----1,1-Dichloroethane_ | 540-59-0-----1,2-Dichloroethene (total) 10 10 10 : 11 : 67-66-3-----Chloroform_ | 107-06-2----1,2-Dichloroethane____ 10 111 : 78-93-3-----2-Butanone_ 10 10 : 71-55-6----1,1,1-Trichloroethane_____ 10 !U 10 !U | 56-23-5-----Carbon Tetrachloride_____ : 75-27-4----Bromodichloromethane 10 10 10 :U : 78-87-5-----1,2-Dichloropropane_____ : 10061-01-5----cis-1,3-Dichloropropene____ 10 10 : 79-01-6----Trichloroethene 10 111 | 124-48-1----Dibromochloromethane 10 ΙU ; 79-00-5----1,1,2-Trichloroethane____ 10 !U JU : 71-43-2-----Benzene_ 10 : 10061-02-6-----trans-1,3-Dichloropropene____ 10 10 10 IU 1 75-25-2-----Bromoform 10 :U | 108-10-1----4-Methyl-2-Pentanone 10 111 : 591-78-6-----2-Hexanone_ | 127-18-4----Tetrachloroethene____ 10 1U | 79-34-5----1,1,2,2-Tetrachloroethane____ 10 111 : 108-88-3-----Toluene____ 10 10 : 108-90-7-----Chlorobenzene____ 10 :11 : 100-41-4----Ethylbenzene____ 10 IU ! 100-42-5----Styrene_ 10 : U 10 10 : 1330-20-7-----Xylene (total)___

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

! VBLKOM

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOM

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: DVB08139301

Level: (low/med) LOW

Date Received:

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

% Moisture: not dec.

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKOP

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOP

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVB08149301

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm)

CUMBULIVID

Dilution Factor: 1.0

Soil Extract Volume:

CAS NO

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (up/L or up/Kp) US/KS

CAS NU.	COMPOUND (mg/L or mg/)	vās neske	Q
			l
74-87-3	Chloromethane	10	: U
74-83-9	Bromomethane	10	l U
75-01-4	Vinyl Chloride	10	! U
75-00-3	Chloroethane;Methylene Chloride;	10	l U
75-09-2	Methylene Chloride	10	١U
67-64-1	Aretone !	10	۱U
/3-13-0	Caroon Disuitide :	10	: U
75-35-4	1.1-Dichloroethene	10	١U
75-34-3	1,1-Dichloroethane	10	!U
540-59-0	1,2-Dichloroethene (total)	10	ΙU
67-66-3	Chloroform:	10	10
107-06-2	Chloroform	10	! U
78-93-3	2-Butanone :	10	١U
/1-55-6	1,1,1-Trichloroethane ;	10	١U
56-23-5	Carbon Tetrachloride !	10	: U
75-27-4	Bromodichloromethane :	10	١U
78-87-5	1.2-Dichloropropage !	10	10
10061-01-5	cis-1.3-Dichloropropene :	10	: U
79-01-6	Trichloroethene :	10	l U
124-48-1	Dibromochloromethane;	10	i U
79-00-5	1,1,2-Trichloroethane	10	10
71-43-2	Benzene	10	: U
10061-02-6	trans-1,3-Dichloropropene;	10	ίU
75-25-2	Bromoform	10	ıÜ
108-10-1	4-Methyl-2-Pentanone	10	. U
591-78-6	2-Hexanone	10	. U
127-18-4	Tetrachloroethene:	10	10
79-34-5	1,1,2,2-Tetrachloroethane		10
100-00-7	Toluene	10	10
100-00-3	Toluene; Chlorobenzene;		
100-717	Curononeusene	10	! U
100-41-4	Ethylbenzene	10	10
1770 00 7	Styrene	10	: U
1220-50-/	xylene (total)	10	IU

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

VBLKOP

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOP

Date Analyzed: 08/14/93

Sample wt/vol: 5.0 (q/mL) G

Lab File ID: OVB08149301

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLK00

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL

% Moisture: not dec.

Lab Sample ID: VBLKOQ

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVB08159301

Level: (low/med) LOW

Date Received:

Date Analyzed: 08/15/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

	CAS NO.	COMPOUND			TION U ug/Kg)	NITS: UG/KG		Q	
: -	74 07 7				į.			ł	
i	74-8/-3	-Chloromethane	····		—- <u>!</u>	_	0	i U	
1	74-83-7	-Bromomethane			 !	_	0	i U	
i	75 00 7	-Vinyl Chloride			<u>.</u>		0	!U	
1	75 00 3	-Chloroethane			<u> </u>	_	0	ŀU	i
i	/3-09-2	-Methylene Chloride			— <u> </u> !	-	0	i U	ì
i ı	75 45 0	-Acetone			<u></u> !	_	0	! U	;
1	/3-13-0	-caroon bisultide			i	_	0	l U	,
	75-33-4	-1,1-Dichloroethene			<u></u> !	_	0	l U	
i	73-34-3	-1.1-Dichloroethane			!	-	0	!U	
	340-34-0	-1,2-Dichloroethene	(tota	11)_	 -!	_	0	ΙU	i
i	107 0/ 0	-Chloroform			<u>.</u>		0	!U	i
į,	107-06-2	-1,2-Dichloroethane			!	_	0	ווו	ì
ì	/8-93-3	-2-Butanone			!	_	O	١U	;
i	/1-55-6	-1,1,1-Trichloroeth	ane		!	1	0	I U	;
:	56-23-5	-Carbon Tetrachlori	de		<u> </u>	1	0	!U	i
	/5-2/-4	-Bromodichlorometha	ne		¦	1	O	¦U	1
	78-87-5	-1,2-Dichloropropan	e		¦	1	O	!U	1
ì	10061-01-5	-cis-1,3-Dichloropr	opene_		l	1	0	l U	;
:	79-01-6	-Trichloroethene			:	1	0	¦ U	;
:	124-48-1	-Dibromochlorome tha	ne		!	1	0	١U	ł
;	79-00-5	-1,1,2-Trichloroeth	ane		:	1	O	:U	;
1	71-43-2	-Benzene	····		!	1	0	:U	i
i	10061-02-6	-trans-1.3-Dichloro	propen	ė	;	1	0	:U	ŀ
ŀ	75-25-2	-Bromof orm				1	0	١U	1
Į.	108-10-1	-4-Methvl-2-Pentano	ne		1	1	0	l U	į
;	591-78-6	-7-Hevanone			1	1	0	l U	ŀ
i i	12/-18-4	-!etrachioroethene			:	1	O	l U	;
i	/ 7 - 3 4 - 3	-1.1.2.2-letrachlor	oethan:	6	!	1	0	lU.	ł
ł	108-88-3	-Toluene			!	1.	0	:U	ļ
	100-70-/	-chioropenzene			:	1	0	I U	1
i	100-41-4	-Ethvihenzene			!	1	-	10	1
1	100-42-5	-Styrene			— <u>;</u>	_	Ö	10	į
:	1330-20-7	-Styrene -Xylene (total)			` ;	1	-	IU	
!					<u>'</u>	•	•		

1 E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

VBLKOQ

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOQ

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVB08159301

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 08/15/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

:			í			1		i			i		i
	CAS	NUMBER	1	COMPOUND	NAME	;	RT	1	EST.	CONC.	ł	Q	ŀ
; =	====	=======	==	=======================================	========	= ==	=====	= =	=====	=====	=	====	;
1			t i			{		_		•	_		1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: PACE INC.

Contract: ELLINGTON

VBLKOS

SAMPLE NO.

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOS

Sample wt/vol:

5.0 (g/mL) G

Lab File ID:

OVB08179301

Level: (low/med) LOW

Date Received:

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

% Moisture: not dec.

(uL)

Soil Aliquot Volume: (uL)

Date Analyzed: 08/17/93

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q | 74-87-3-----Chloromethane____ 10 (U ! 74-83-9-----Bromomethane____! 10 10 | 75-01-4-----Vinyl Chloride_____ 10 HU | 75-00-3-----Chloroethane__ 10 : U : 75-09-2----Methylene Chloride____ 10 :U | 67-64-1-----Acetone 10 10 : 75-15-0-----Carbon Disulfide____ 10 10 | 75-35-4----1,1-Dichloroethene__ 10 !U | 75-34-3-----1,1-Dichloroethane_ 10 10 | 540-59-0----1,2-Dichloroethene (total) | 10 10 : 67-66-3-----Chloroform :U 10 ! 107-06-2----1,2-Dichloroethane____! 10 : U : 78-93-3-----2-Butanone_ 10 U : 71-55-6----1,1,1-Trichloroethane____ 10 IU | 56-23-5-----Carbon Tetrachloride ŧυ 10 : 75-27-4----Bromodichloromethane____: 10 :U : 78-87-5-----1,2-Dichloropropane_____ 10 : U 10061-01-5----cis-1,3-Dichloropropene 10 10 | 79-01-6-----Trichloroethene____ 10 HU | 124-48-1----Dibromochloromethane____ :U 10 | 79-00-5-----1,1,2-Trichloroethane_____ 10 IU | 71-43-2----Benzene_ 10 ΙU 10061-02-6----trans-1,3-Dichloropropene 10 10 : 75-25-2-----Bromoform_ ΙU 10 | 108-10-1----4-Methyl-2-Pentanone____ 10 10 591-78-6----2-Hexanone____ 10 :U | 127-18-4----Tetrachloroethene 10 ١U | 79-34-5----1,1,2,2-Tetrachloroethane____| 10 יוו : 108-88-3----Toluene ١U 10 | 108-90-7-----Chlorobenzene____ 10 !U : 100-41-4----Ethylbenzene 10 :U : 100-42-5-----Styrene___ 10 :U ! 1330-20-7-----Xylene (total)_____ : U 10

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name:

PACE INC.

Contract: ELLINGTON

VBLKOS

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOS

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: OVB08179301

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 08/17/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

SAMPLE NO.

VBLKOW

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOW

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVB08249301

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 08/24/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

	CAS NO.	COMPOUND		ATION UNITS: ug/Kg) UG/KG		۵
:				1		† †
i	74-87-3	Chloromethane		<u>.</u>	LO	IU I
i	74-83-7	Bromomethane		<u>.</u>	LO	10 !
i	75-01-4	Vinyl Chloride		i	LO	10 :
i	73-00-3	Chloroethane		<u>:</u>	LO.	!U :
i	/3-09-2	Methylene Chlorid	e		10	!U !
i	6/-64-1	Acetone			lO .	!U !
i	/3-13-0	Carbon Disulfide_		<u>.</u>	LO	1U . I
i,	/3-33-4	1,1-Dichloroethen	e	!	10	10
i	/5-34-3	1,1-Dichloroethan	e	<u>.</u>	10	10 1
1	340-37-0	1,2-Dichloroethen	e (total) ₋	}	O	:U :
i	6/-66-3	Chloroform		! <u> </u>	10	10 1
i	10/-06-2	1,2-Dichloroethan	e	! !	.0	IU I
i	/8-73-3	2-Butanone		<u>.</u>	.0	10
i	/1-00-6	1,1,1-Trichloroet	nane	: <u> </u>	.0	10 1
i	75 77 4	Carbon Tetrachlor	1 d e		.0	10
, i	70-27-4	Bromodichlorometh	ane	! <u>1</u>	.0	10 :
i	100/1 01 5	1,2-Dichloropropa	ne	i	.0	10 :
i	10081-01-3	cis-1,3-Dichlorop	ropene	<u> </u>	.0	10 !
i	/9-01-6	Trichloroethene			.0	10 1
i	124-48-1	Dibromochlorometh	ane	!!	Q.	10 1
i	79-00-5	1,1,2-Trichloroet	hane	i	.0	10 - 1
i	/1-43-2	Benzene		1	.0	‡U !
i	75 05 0	trans-1,3-Dichlor			.0	10 1
i	75-25-2	Browotorm		! 1	0	IU I
i	108-10-1	4-Methyl-2-Pentan	one	1	.0	IU I
i	591-78-6	2-Hexanone		1	0	IU I
į	12/-18-4	Tetrachloroethene		1	0	iu i
	/9-34-5	1,1,2,2-Tetrachlo	roethane	<u>'</u>	3	IJ I
i	108-88-3	Toluene		1	0	10 1
i	108-90-/	Chlorobenzene		: 1	0	וט ו
i	100-41-4	Ethylbenzene		! 1	0	!U ;
1	100-42-5	Styrene		; 1	0	10 ;
!	1330-20-7	Styrene Xylene (total)		; 1	O	10 ;
i				i i		1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name:

PACE INC.

Contract: ELLINGTON

VBLKOW

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOW

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVB08249301

Level: (low/med) LOW

GC Column: CAP ID: 0.530 (mm)

Date Received:

% Moisture: not dec.

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Date Analyzed: 08/24/93

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

SAMPLE NO.

02SB18BAMS

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246770MS

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08139309

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec. 21

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

	CAS NO.	COMPOUND			ATION U		Q	
	74-87-3 74-83-9 75-01-4 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 75-27-4 78-87-5 10061-01-5 79-01-6 124-48-1 79-00-5 71-43-2 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 108-88-3	-Chloromethane -Bromomethane -Vinyl Chloride -Chloroethane -Methylene Chloride -Acetone -Carbon Disulfide -1,1-Dichloroethane -1,1-Dichloroethane -1,2-Dichloroethane -1,2-Dichloroethane -2-Butanone -1,1,1-Trichloroeth -Carbon Tetrachlori -Bromodichlorometha -1,2-Dichloropropan -1,2-Dichloroethene -1,1,2-Trichloroeth -Carbon Tetrachlori -Bromodichlorometha -1,2-Dichloropropan -1,2-Trichloroeth -Benzene -trans-1,3-Dichloro -Bromoform -4-Methyl-2-Pentano -2-Hexanone -Tetrachloroethene -1,1,2,2-Tetrachloroethene -Toluene	(ug/L (tota ane_ de_ ne_ e_ opene_ ane_ propen	e	ug/Kg)	UG/KG 13 13 13 13 13 13 13 13 13 13 13 13 13		
:	100-41-4	-Chlorobenzene -Ethylbenzene -Styrene -Xylene (total)			— <u>¦</u>	13 13 13 13	U U U	1
١.	· · · · · · · · · · · · · · · · · ·	., rene (oodi/			¦	٠	1	.!

SAMPLE NO.

02SB18BAMSD

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246771MSD

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: 0VP08139310

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec. 21

GC Calumn: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Date Analyzed: 08/13/93

CONCENTRATION UNITS: (up/L or up/Kp) UB/KB

CAS NO.	COMPOUND	ID (ug/L or ug				_	
CHO NO:	COMPOUND	(ug/L or	, mālvāl	U6/ N.6		Q	
			:		i i		
74-87-3	Chloromethane		<u> </u>	13	١U		
/4ー83ー9	Bromomethane		;	13	١U		
/3-01-4	Vinvi [h nride		3	13	١U		
75-00-3	Chloroethane		i	13	١U		
75-09-2	Chloroethane Methylene Chloride		;	13	١U		
67-64-1	Acetone		<u> </u>	57	ŀ		
75-15-0	Carbon Disulfide_		1	13	١U		
/3-33-4	l.l-D1Chloroethene		:	13	ΙU		
75-34-3	1,1-Dichloroethane	-		13	l U		
540-59-0	l.2-Dichloroethene	(total)	!	13	ΙÜ		
67-66-3	Chloroform 1,2-Dichloroethane		 ;	13	ΙU		
107-06-2	1,2-Dichloroethane		:	13	ΙÜ		
78-93-3	2-Butanone		;	13	ΙŪ		
71-55-6	1,1,1-Trichloroeth	ane	1	13	ΙŪ		
54-23-5	Carbon Tetrachlori	de	 ;	13	ıu		
75-27-4	Bromodichlorometha	<u></u>	 ;	13	ιυ		
78-87-5	1,2-Dichloropropan	e	 ;	13	: U		
10061-01-5	cis-1,3-Dichloropro		<u>'</u>	13	: U		
79-01-6	Trichloroethene		 ;	13	: U	• 1	
124-48-1	Trichloroethene Dibromochlorometha	5.6	 ;	13	: U		
79-00-5	1,1,2-Trichloroeth	700	 ;	13	10		
71-43-0		g116	'	13		:	
10041-02-4	Benzene trans-1,3-Dichloro		 ¦		10		
75-75-7	trans-1,3-bithioro	orobene —	i	13	10	i	
100-10-1	Bromoform_ 4-Methyl-2-Pentanon		 :	13	١U	i	
501-70-7	4-Metny1-2-Pentanor	1e	<u>:</u>	13	!U	i	
171-/8-6	2-Hexanone		i	13	U		
12/-18-4	letracnioroethene_		ì	13	: U		
/9-34-5	1,1,2,2-Tetrachlor	sethane_	¦	13	: U		
108-88-3	Toluene		<u> </u> {	13	ΙU		
100	chiolobenzene		i	13	١U		
100-41-4	Ethvlbenzene		!	13	١U		
100-42-5	Styrene Xylene (total)			13	l U	1	
1330-20-7	Xylene (total)		 ;	13	10		
			 !	_	1		

SAMPLE NO.

LCS1

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: LCS1

Date Analyzed: 08/13/93

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVT08139303

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Q

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

		CUNCENTRATION UNITS:
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG
	,	

		-	
			!
74-87-3	Chloromethane	10	lU i
74-83-9	Bromomethane	10	:U :
75-01-4	Vinyl Chloride	10	: 0
75-00-3	Chloroethane	10	10 1
75-09-2	Methylene Chloride	39	1 1
67-64-1	Acetone Carbon Disulfide	10	: : :
75-15-0	Carbon Disulfide	10	: :
75-35-4	1,1-Dichloroethene	10	:U :
75-34-3	1.1-Dichloroethane	1 42	: :
540-59-0	1,2-Dichloroethene (total)	36	1 1
			1 1
107-06-2	Chloroform 1,2-Dichloroethane	43	;
78-93-3	2-Butanone	10	: : :
71-55-6	1,1,1-Trichloroethane	1 46	1 1
56-23-5	Carbon Tetrachloride	1 40	1 1
75-27-4	Bromodichloromethane	; 50	1 1
78-87-5	1,2-Dichloropropane	41	1 1
10061-01-5	cis-1,3-Dichloropropene	: 44	1 1
79-01-6	Trichloroethene	10	1U :
124-48-1	Dibromochloromethane	43	1 1
79-00-5	1.1.2-Trichloroethane	. 44	: :
71-43-2	Benzene	10	LU !
10061-02-6	trans-1,3-Dichloropropene	46	1 !
75-25-2	Bromoform	1 53	1
108-10-1	4-Methyl-2-Pentanone	10	10 1
591-78-6	2-Hexanone	1 3	{J }
127-18-4	Tetrachloroethene	: 35	1 1
79-34-5	1,1,2,2-Tetrachloroethane	: 53	1
108-88-3	Toluene	10	: U :
108-90-7	Chlorobenzene	10	:U :
100-41-4	Ethylbenzene	46	1 1,
100-42-5	Styrene	0.7	'lJ
1330-20-7	Xylene (total)	: 33	1 :
			11

SAMPLE NO.

LCS2

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: LCS2

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: OVTO8149302

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NO.	COMPOUND			ug/Kg)			Q
1	74-07-7	Ch.1			!		ł	;
1	74-87-0	Chloromethane	·		<u>'</u>	10	: U	i
	75-01-4	Bromomethane			i	10	10	ì
!	75-00-3	Vinyl Chloride			<u>'</u>	10	10	i
	75-00-3	Chloroethane	<u> </u>		—— <u> </u>	10	i U	i
	47-44-1	Methylene Chloride	·		——!	53	i	i
	7F 15 A	Acetone			 !	10	١U	i
	/3-10-0	caroon bisuitide			;	10	! U	;
	73-33-4	1,1-Dichloroethene	? <u></u>		!	10	! U	ŧ
	/J-34-3	1,1-Dichloroethane			<u> </u>	52	i	i
	340-37-0	1,2-Dichloroethene	e (tota	11)_		55	i	, ;
	6/-66-3	Chloroform			¦	50	1	`
	- エリノーいらービーーーー-	l.Z-Dichloroethane	١.		:	57	- 1	;
	/8-73-3	2-Butanone			• !	10	١U	;
	/1-00-6	l.l.l- richloroeth	nane		!	55	1	}
	56-23-5	Carbon Tetrachlori	de		;	49	1	ł
	75-27-4	Bromodichlorometha	ine		!	56	;	į
	78-87-5	1,2-Dichloropropar	1e		:	48	1	!
	10061-01-5	cis-1.3-Dichloron:	ODene		!	54	1	1
	79-01-6	Trichloroethene			:	10	ΙU	:
	124-48-1	Dibromochlarametha	D P		ţ	26	1	:
	79-00-5	1.1.2-Trichloroeth	200		!	50	;	i
	71-43-2	Benzene trans-1,3-Dichloro				10	iu	i
	10061-02-6	trans-1.3-Dichlore	proper	e	!	54	-	i
	75-25-2	Bromoform4-Methyl-2-Pentanc				65	!	į
	108-10-1	4-Methvl-2-Pentanc	ne		;	10	Ü	
	591-78-6	2-Hexanone			<u>;</u>	2	ij	•
	127-18-4	Tetrachloroethene		,	 ;	50	!	
	79-34-5	1,1,2,2-Tetrachlor	nethan		······································	63 63	!	,
	108-88-3	Toluene			;	10	iu	
	108-90-7	Chlorobenzene			 ;	 -		
	100-/1-/	Chioropenzene			<u>'</u>	10	ļU	i
	100-47-5	Ethylbenzene	·		i	55	i 	•
	1770 70 7	Styrene			<u>i</u>	10	U	1
	1330-20-/	Xylene (total)	· · · · · · · · · · · · · · · · · · ·		;	40	ł	1
_					1		:	:

SAMPLE NO.

LCS3

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: LCS3

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID:

DVT08159303

Level: (low/med) LOW

Date Received:

50 1

1

ΙJ

¦ J

1

ΙU

IU

lU.

I

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71

4

5

50

10

10

10

54

10

40

GE Column: CAP ID: 0.530 (mm)

| 10061-02-6----trans-1,3-Dichloropropene_

: 79-34-5-----1,1,2,2-Tetrachloroethane___

108-10-1-----4-Methyl-2-Pentanone__

127-18-4----Tetrachloroethene

: 75-25-2----Bromoform_

| 108-88-3----Toluene___

| 100-42-5----Styrene_

| 591-78-6----2-Hexanone_

: 108-90-7-----Chlorobenzene__

i 100-41-4----Ethylbenzene___

| 1330-20-7-----Xylene (total)_

Dilution Factor: 1.0

CONCENTRATION UNITS:

Soil Extract Volume: (uL)

% Moisture: not dec.

Soil Aliquot Volume: (uL)

Date Analyzed: 08/15/93

			COMCER	11/11/11/11	0141101			
	CAS NO.	COMPOUND	(ug/L d	or ug/k	(g) UG/K	G	(3
:	Transition			:			1	 :
1	74-87-3	Chloromethane		!		10	١U	ł
- {	74-83-9	Bromomethane		ŧ		10	١U	!
ŧ	75-01-4	Vinyl Chloride		;		10	ΙU	ŀ
1	75-00-3	Chloroethane		;		10	ΙU	1
ŀ	75-09-2	Methylene Chloride	•	;		59	f	1
ŧ	67-64-1	Acetone		;		10	١U	ŀ
1	75-15-0	Carbon Disulfide	•	;		10	:U	ł
i	75-35-4	1,1-Dichloroethene)			10	:U	I
ŀ	75-34-3	1,1-Dichloroethane	•	:		50	1	ł
ł	540-59-0	1,2-Dichloroethene	(tota)	1)!		56	ł	1
ļ	67-66-3	Chloroform				47	ł	ŀ
i	107-06-2	1,2-Dichloroethane	·	<u> </u>		52	;	;
1	78-93-3	2-Butanone		<u> </u>		10	ΙU	;
ł	71-55-6	1,1,1-Trichloroeth	ane	 		50	1	:
;	56-23-5	Carbon Tetrachlori	de	:		45	:	1
ł	75-27-4	Bromodichlorometha	ne	1		52	i	ł
•	78-87-5	1,2-Dichloropropan	e	:		46	ł	;
ŀ	10061-01-5	cis-1,3-Dichloropr	opene	;		52	ť	- 1
i	79-01-6	Trichloroethene		<u> </u>		10	ΙU	1
ŀ	124-48-1	Dibromochlorometha	ne	ŀ		50	ł	!
į	79-00-5	1,1,2-Trichloroeth	ane	<u> </u>		49	ł	!
i	71-43-2	Benzene		<u> </u>		10	١U	1

1A VOLATILE ORGANICS ANALYSIS DATA SHEET SAMPLE NO.

LCS4

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: LCS4

Sample wt/vol: 5.0 (g/mL) G

Date Analyzed: 08/17/93

Lab File ID: OVT08179303

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NO.	COMPOUND	(ug/L or ug/K		Q
į			į.		1
ŀ	74-87-3	Chloromethane		10	10 1
1	74-83-9	Bromomethane	!	10	iu i
;	75-01-4	Vinyl Chloride	i	10	10 1
1	75-00-3	Chloroethane	!	10	:U :
!	75-09-2	Methylene Chloric	le!	51	1 1
ŀ	67-64-1	Acetone	1	10	:U :
ļ	75-15-0	Carbon Disulfide		10	10 1
ł	75-35-4	1,1-Dichloroether	le!	10	:U :
ŧ	75-34-3	1,1-Dichloroethar	ie i	53	1 1
ŀ	540-59-0	1,2-Dichloroether	e (total) ;	56	1 1
i	67-66-3	Chloroform	1	52	
ŀ	107-06-2	1,2-Dichloroethar	e i	59	1
į	78-93-3	2-Butanone	;	1	IJ I
ŀ	71-55-6	1,1,1-Trichloroet	hane :	57	1
ļ	56-23-5	Carbon Tetrachlor	ide !	52	
1	75-27-4	Bromodichlorometh	ane	5 9	1
ŀ	78-87-5	1,2-Dichloropropa	ne	54	1
	10061-01-5	cis-1,3-Dichlorop	ropene	57	1
į	79-01-6	Trichloroethene_		10	10 1
ŀ	124-48-1	Dibromochlorometh	ane	54	1
	79-00-5	1,1,2-Trichloroet	hane !	51	i
		Benzene		10	iu i
		trans-1,3-Dichlor		57	!!!
i	75-25-2	Bromoform_	Sp. Spenc	5 <i>7</i>	
į	108-10-1	4-Methy1-2-Pentar	ione !	10	iu i
:	591-78-4	2-Hexanone	!	3	IJ i
ì	177-19-4	Tetrachloroethene		50	!!!
	70-34-5	1,1,2,2-Tetrachlo		60	
				10	
i	108-88-3	Toluene	<u> </u>		
ì	108-70-/	Chlorobenzene		10	!U !
i	100-41-4	Ethylbenzene		61	i i•
1	100-42-5	Styrene	<u> </u>	0.6	oi J
ì	1330-20-7	Xylene (total)	1 ·	44	1,
ł			<u> </u>		_!!

SAMPLE NO.

LCS5

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: LCS5

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID:

DVT08249302

Level: (low/med) LOW

Date Received:

GC Column: CAP ID: 0.530 (mm)

: 127-18-4----Tetrachloroethene____

: 108-88-3-----Toluene___

| 100-42-5----Styrene_

: 79-34-5-----1,1,2,2-Tetrachloroethane____

| 108-90-7-----Chlorobenzene____

: 100-41-4----Ethylbenzene_____

: 1330-20-7----Xylene (total)_____

Dilution Factor: 1.0

Soil Extract Volume: (uL)

% Moisture: not dec.

Soil Aliquot Volume: (uL)

Date Analyzed: 08/24/93

37

40

10

10 IU 45 |

0.5¦J

32 |

:B

: U

CONCENTRATION UNITS: Q (ug/L or ug/Kg) UG/KG CAS NO. COMPOUND 10 10 : 74-87-3-----Chloromethane_____ : U | 74-83-9-----Bromomethane______ 10 ΙU 10 ; 75-01-4-----Vinyl Chloride____ 10 :U : 75-00-3-----Chloroethane____ 42 i : 75-09-2----Methylene Chloride_____ :U 10 : 67-64-1-----Acetone_ : U : 75-15-0------Carbon Disulfide__ 10 10 IU : 75-35-4----1,1-Dichloroethene____ 44 : 75-34-3-----1.1-Dichloroethane__ 43 : 540-59-0-----1,2-Dichloroethene (total)____; 42 : 67-66-3-----Chloroform____ | 107-06-2----1,2-Dichloroethane_ 42 ΙJ 1 : 78-93-3-----2-Butanone__ 42 | 71-55-6-----1,1,1-Trichloroethane_____ 41 : 56-23-5----Carbon Tetrachloride_____: 42 | | 75-27-4----Bromodichloromethane______ 40 ': 78-87-5------i,2-Dichloropropane_ 41 : 10061-01-5----cis-1,3-Dichloropropene____ 10 : 79-01-6----Trichloroethene : 124-48-1-----Dibromochloromethane____ 37 39 : 79-00-5----1,1,2-Trichloroethane____ LU. 10 : 71-43-2-----Benzene__ 39 : 10061-02-6-----trans-1,3-Dichloropropene___ 41 | 75-25-2----Bromoform__ | 108-10-1----4-Methyl-2-Pentanone_____ 10 IU ¦ J 3 : 591-78-6-----2-Hexanone_

BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT SEMIVOLATILES DATA PACKAGE ELL1, PKG2

PACE INCORPORATED HOUSTON ANALYTICAL LABORATORY SEPTEMBER 13, 1993

SEMIVOLATILE CASE COMMENTS BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT ELL1, PKG2 MATRIX: SOIL

- 1. Data calculation on Forms I through VIII were performed using Finnigan Formaster software (Version 3.2) for the 3/90 protocols. Occasional differences in rounding are encountered due to initial rounding of numerical data by Formaster. The effects of this rounding are considered minor and no serious errors in the final data are expected. The EPA views the use of Formaster software satisfactory for CLP type data package generation.
- 2. See enclosed list for definitions of flags.
- 3. The samples were extracted and analyzed within the hold time period for this package.
- 4. No tentatively identified compounds or raw-data were required by the client.
- 5. Surrogate recoveries failed for the following samples and blanks: 02-FB01-A-A (H245840), 02-SB19-A-A (H246697), 02-SB26-B-A (H247049), 02-SB20-B-A-MSD (H245838 MSD), SBLKSJ, SBLKSK. Sample 02-FB01-A-A was reextracted and reanalyzed; however the surrogates were spiked at twice the amount. No target compounds were detected and no further corrective action was taken. The reextract for sample 02-SB19-A-A passed surrogate recoveries and no further corrective action was taken. The reextract of sample 02-SB26-B-A passed surrogate recoveries and no further corrective action was taken. The matrix spike duplicate was not reextracted and it was not reanalyzed due to 3/90 protocols regarding spiked samples. The blanks, SBLKSJ and SBLKSK, were reextracted in conjunction with samples 02-SB-26-B-A and 02-SB19-A-A, respectively. They were spiked at twice the amount; however, since the samples did not contain target compounds of interest, no further corrective action was taken. All Form 1's are included in the package.
- 6. The matrix spike (02-SB20-B-A-MS, H245837MS) recoveries were outside the control limits. No corrective action was taken since a laboratory control sample (LCS) had been analyzed with recoveries compared against the extraction blank SBLKSB (H246507). Refer to Form 3.
- 7. On Form 8, the internal standard Acenaphthene-d10 was out of the QC limits for the laboratory control sample.

(from Statement of Work for Organics Analysis, Rev. 3/90)

- A This flag indicates that a TIC is a suspected aldol-condensation product.
- B This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warms the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.
- C This flag applies to pesticide results where the <u>identification</u> has been confirmed by 6C/MS. If 6C/MS confirmation was attempted but was unsuccessful, do <u>not</u> apply this flag; instead use a laboratory-defined flag, discussed below.
- D This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is reanalyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and <u>all</u> concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.
- E This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and reanalyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, for example, a diluted analysis is not required for total xylenes unless the concentration of either peak separately exceeds 200 ug/L.
- J Indicates an estimate value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 ug/L, but a concentration of 3 ug/L is calculated, report it as 3 J. The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

- N Indicates the presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X.) The lower of the two values is reported on Form I and flagged with a *p.*
- U Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$(330 \text{ U}) \times df$$
, where $D = 100 - \%$ moisture and $df = dilution$ factor

For example, at 24% moisture,
$$D = \frac{100 - 24}{100} = 0.76$$

$$(330 \text{ U}) \times 10 = 4300 \text{ U}$$
 rounded to the appropriate number of significant figures

For soil samples subjected to GPC cleanup procedures, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the specified volume, this fact must be accounted for in reporting the sample quantitation limit.

X - Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG Narrative. Begin by using "X." If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A," "B," and "D" flags for some sample. The laboratory-defined flags are limited to the letters "X," "Y," and "7."

The combination of flags "EU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

ELLINGTON AFB TRACKING CHART

CASE I.D.: SDG: MATRIX:	ELL1 PKG2 SOIL	
PACE NUMBER	CLIENT I.D.	DATE DATE SXD RCVD
H245835 H245836 H245837 H245838 H245839 H245840 H245841 H245842 H245843 H246038 H246039 H246040 H246041 H246041 H246042 H246043 H246044 H246697 H246698 H246770 H246770 H246771	02-SB16-B-A 02-SB20-B-A 02-SB20-B-A MS 02-SB20-B-A MSD 02-RB01-A-A 02-FB01-A-A 02-FB02-A-A 02-TB01-A-A 02-TB02-A-A 02-SB18-B-A 02-RB02-A-A 02-SB15-A-A 02-SB15-C-A 02-SB15-C-A 02-FD15-C-A 02-FD15-C-A 02-TB03-A-A 02-RB03-A-A 02-RB03-A-A 02-SB18-B-A MS 02-SB18-B-A-MSD	8/5 8/5 8/5 8/5 8/6 8/6 8/11 8/11 8/6 8/6 8/13 8/14
H247049 H247050 H247051	02-SB26-B-A 02-RB05-A-A 02-TB06-A-A	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02FB01AA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245840

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08239303

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture:

decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor:

GPC Cleanuo: (Y/N) Y

pH: 6.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Ø COMPOUND CAS NO. 330 ١U : 108-95-2----Phenol____ 111-44-4-----bis(2-Chloroethyl)Ether____ 330 : U 1U 330 : 95-57-8-----2-Chlorophenol_____ : U 330 ; 541-73-1-----1,3-Dichlorobenzene_____ 10 106-46-7-----1,4-Dichlorobenzene_____: 330 : U 330 : 95-50-1-----1,2-Dichlorobenzene_____ 1U 330 ; 95-48-7----2-Methylphenol_ 330 : 11 | 108-60-1----2,2'-oxybis(1-Chloropropane)_| :U ! 106-44-5-----4-Methylphenol__ 330 330 !U : 621-64-7----N-Nitroso-Di-n-Propylamine___ 330 :U | 67-72-1-----Hexachloroethane_____ ١U 330 ; 98-95-3----Nitrobenzene____ 10 330 : 78-59-1-----Isophorone___ : U 330 : 88-75-5----2-Nitrophenol : 105-67-9----2,4-Dimethylphenol____ :U 330 : U ! 111-91-1-----bis(2-Chloroethoxy)Methane____; 330 | 120-83-2----2,4-Dichlorophenol____ !U 330 1 120-82-1----1,2,4-Trichlorobenzene____ 330 !U !U 330 : 91-20-3-----Naphthalene___ 330 : 11 : 106-47-8-----4-Chloroaniline_ : 87-68-3-----Hexachlorobutadiene____ 330 :U 330 10 : 59-50-7-----4-Chloro-3-Methylphenol____ 330 10 : 91-57-6----2-Methylnaphthalene___ : U 330 : 77-47-4-----Hexachlorocyclopentadiene____ 10 330 : 88-06-2----2,4,6-Trichlorophenol_____ !U 1600 : 95-95-4----2,4,5-Trichlorophenol_____; ! U 330 : 91-58-7----2-Chloronaphthalene_____ 1U 1600 : 88-74-4-----2-Nitroaniline_ 330 ١U : 131-11-3-----Dimethyl Phthalate_____ :U 330 : 208-96-8-----Acenaphthylene____ 10 330 : 606-20-2----2,6-Dinitrotoluene____ ;U 1600 330 : U 83-32-9-----Acenaphthene_

FORM I SV-1

SAMPLE NO.

02FB01AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245840

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08239303

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(na/r or na/ka		G	——.
51-28-5	2.4-Dinitrophenol_	f 1	1600	۱.	}
100-02-7	4-Nitrophenol	;	1600	١U	i
132-64-9	Dibenzofuran	:	330	١U	!
	2.4-Dinitrotoluene		330	:U	1
84-66-2	Diethylphthalate 4-Chlorophenyl-pher	\$ \$	330	١U	i
7005-72-3	4-Chlorophenyl-pher	nylether!	330	ŧ∪.	ţ
86-73-7	Fluorene		330	١U	;
100-10-6	4-Nitroaniline	;	1600	١U	1
534-52-1	4,6-Dinitro-2-Meth	ylphenol!	1600	ŀυ	ł
86-30-6	N-Nitrosodiphenyla	mine (1)!	330	!U	ţ
	4-Bromophenyl-pheny		330	١U	;
	Hexachlorobenzene_		330	١U	i
87-86-5	Pentachlorophenol_	1	1600	ŀU	ł
	Phenanthrene		330	: U	i
120-12-7	Anthracene		330	١U	1
86-74-8	Carbazole	!	330	ΙU	1
	Di-n-Butylphthalat		330	١U	ł
	Fluoranthene		330	: U	1
129-00-0	Pyrene	<u> </u>	330	!U	i
85-68-7	Butylbenzylphthala	te l	330	ΙU	ļ
	3.3 -Dichlorobenzi		660	١U	1
56-55-3	Benzo(a)Anthracene	!	330	! 🖰	;
: 218-01-9	Chrysene	į	330	ΙU	1
117-81-7	Chrysene bis(2-Ethylhexyl)P	hthalate	330	!U	;
117-84-0	Di-n-Octyl Phthala	te	330	١U	ł
	Benzo(b)Fluoranthe		330	: U	i
	Benzo(k)Fluoranthe		330	۱U	ŧ
	Benzo(a)Pyrene		330	: 🖰	. !
	Indeno(1,2,3-cd)Py		330	١U	1
	Dibenz(a,h)Anthrac		330	: U	1
	Benzo(g,h,i)Peryle		330	÷٤	1
1 171-24-2	Delizovášuštvi el Ate			ł	;

^{(1) -} Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

OZFB01AA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245840

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08239303

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) UG/KG

! RT ! EST. CONC. ! Q 1 CAS NUMBER COMPOUND NAME

Date Received: 08/05/93

Date Extracted: 08/27/93

Dilution Factor: 1.0

1 B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET SAMPLE NO.

02FB01AARE

Lab Name: PACE INC. Contract: ELLINGTON

SDG No.: PKG2

Case No.: ELL1

Lab Sample ID: H245840RE

Matrix: (soil/water) SOIL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08309301

Level: (low/med) LOW

% Moisture: decanted: (Y/N) N

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/30/93

Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) Y pH: 6.0

CONCENTRATION UNITS: CAS NO. COMPOUND (ua/L ar ug/Kg) UG/KG

: U 330 : 108-95-2----Phenol !U 330 111-44-4-----bis(2-Chloroethyl)Ether____ ! U : 95-57-8-----2-Chlorophenol_____ 330 : 541-73-1-----1,3-Dichlorobenzene_____ 330 ! U 330 : U 106-46-7----1,4-Dichlorobenzene_____ 330 l U : 95-50-1-----1,2-Dichlorobenzene_____ 330 l U ; 95-48-7-----2-Methylphenol_____ 10 ! 108-60-1----2,2'-oxybis(1-Chloropropane)_! 330 330 : 106-44-5-----4-Methylphenol____ 111 | 621-64-7----N-Nitroso-Di-n-Propylamine____ 330 l U 330 ! U 67-72-1-----Hexachloroethane____ 330 l U : 98-95-3----Nitrobenzene_____ 330 ΙU : 78-59-1-----Isophorone__ IU 330 330 : U | 111-91-1-----bis(2-Chloroethoxy)Methane____ 330 : U :U 330 | 120-83-2----2.4-Dichlorophenol : U | 120-82-1----1,2,4-Trichlorobenzene_____ 330 330 lU | 91-20-3-----Naphthalene_ 330 : U 106-47-8----4-Chloroaniline____ 330 ! U | 87-68-3----Hexachlorobutadiene 330 : U : 59-50-7-----4-Chloro-3-Methylphenol_____ 330 ! U 91-57-6----2-Methylnaphthalene 330 l U : 77-47-4----Hexachlorocyclopentadiene____; 330 10 : 88-06-2-----2,4,6-Trichlorophenol_____; 1600 l U : 95-95-4----2,4,5-Trichlorophenol_____ : 91-58-7----2-Chloronaphthalene 330 l U 10 1600 : 88-74-4----2-Nitroaniline_____ 330 10 | 131-11-3-----Dimethyl Phthalate_____ 330 ! U : 208-96-8-----Acenaphthylene____ 330 : U : 606-20-2-----2,6-Dinitrotoluene_____ :U 1600 : 99-09-2----3-Nitroaniline_____ ١U : 83-32-9-----Acenaphthene_____ 330

FORM I SV-1

1 C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02FB01AARE

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245840RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08309301

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/27/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/30/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND (ug/L or ug/K) UG/KG	İ	C)
!			ľ		1	1
1		2,4-Dinitrophenol		1600	ΙU	i
ŀ		4-Nitrophenol		1600	i U	i
ł		Dibenzofuran		330	!U	i
1	121-14-2	2,4-Dinitrotoluene		330	U	i
į	84-66-2	Diethylphthalate		330	١U	i
t t	7005-72-3	4-Chlorophenyl-phenyl	ether	330	IU	i
	86-73-7			330	ΙU	1
!	100-10-6	4-Nitroaniline		1600	IU	i
1	534-52-1	4,6-Dinitro-2-Methylp	henol	1600	! U	1
!	86-30-6	N-Nitrosodiphenylamir	re (1)	330	:U	i
1	101-55-3	4-Bromophenyl-phenyls	ther	330	l U	i
;		Hexachlorobenzene		330	IU	i
1	87-86-5	Pentachlorophenol	<u> </u>	1600	١U	1
ļ	85-01-8	Phenanthrene		330	: U	i
1	120-12-7	Anthracene	<u> </u>	330	١U	i .
i		Carbazole		330	l U	i
ł	84-74-2	Di-n-Butylphthalate_	i i	330	! U	1
ŀ	206-44-0	Fluoranthene		330	: U	ì
		Pyrene		330	۱U	
:	85-68-7	Butylbenzylphthalate	!	330	: U	1
ł	91-94-1	3,3°-Dichlorobenzidir	re!	660	١U	i
;	56-55-3	Benzo(a)Anthracene	<u> </u>	330	١U	1
1	218-01-9	Chrysene		330	١U	;
;	117-81-7	bis(2-Ethylhexyl)Phth	nalate;	330	۱ 🖰	:
1	117-84-0	Di-n-Octyl Phthalate	<u> </u>	330	١U	i
1	205-99-2	Benzo(b)Fluoranthene	<u> </u>	330	١U	}
Į.	207-08-9	Benzo(k)Fluoranthene		330	: U	1
1	50-32-8	Benzo(a)Pyrene	1	330	i U	i
		Indeno(1,2,3-cd)Pyrer		330	١U	1
1		Dibenz(a,h)Anthracen		330	: U	Ļ
1		Benzo(g,h,i)Perylene		330	١U	1
;		- · · ·	i		¦	;
,	1) Canada b	e senarated from Dinhenv	lamine			

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

2000033

SAMPLE NO.

02FB01AARE

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245840RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08309301

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/27/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/30/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

;			1			1		1			;		1
1	CAS	NUMBER	;	COMPOUND	NAME	1	RT	1	EST.	CONC.	ļ	Q	1
; =	=====	-======	== =		=======	=== ==	====	= =	=====	======	:		i
;_			!			<u> </u>		!_			_ ; _		1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02FB02AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245841

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08209308

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS: (uo/L or uo/Ko) UG/KG 😡

	CAS NO.	COMPOUND	(ug/L or ug/Kg)		Q	
:			l I	· · · · · · · · · · · · · · · · · · ·	:	— _!
:	108-95-2	-Phenol	I	330	١U	1
i	111-44-4	-bis(2-Chloroethy1)Et	her !	330	١U	ì
:	95-57-8	-2-Chlorophenol	1	330	١U	ŧ
!	541-73-1	-1,3-Dichlorobenzene	ŀ	330	١U	:
:	106-46-7	-1,4-Dichlorobenzene	t i	330	١U	1
i	95-50-1	-1,2-Dichlorobenzene	Ī	330	10	;
i	95-48-7	-2-Methylphenol	;	330	ŀU	ŀ
!	108-60-1	-2,2'-oxybis(1-Chloro	opropane) :	330	:U	1
;	106-44-5	-4-Methylphenol		330	:U	;
		-N-Nitroso-Di-n-Propy		330	١U	1
!	67-72-1	-Hexachloroethane	I	330	١U	ŀ
ŀ	98-95-3	-Nitrobenzene	!	330	ΙU	;
:	78-59-1	-Isophorone	1	330	۱U	ŀ
		-2-Nitrophenol		330	١U	ł
ł		-2,4-Dimethylphenol_		330	ΙU	1
1	111-91-1	-bis(2-Chloroethoxy)	1ethane¦	330	l U	1
ı	120-83-2	-2,4-Dichlorophenol_	I	330	: U	ł
		-1.2,4-Trichlorobenze		330	!U	;
1		-Naphthalene		330	!U	1
;	106-47-8	-4-Chloroaniline	!	330	ΙU	1
ſ		-Hexachlorobutadiene		330	١U	1
į	59-50-7	-4-Chloro-3-Methylphe	enoll	330	:U	1
ŀ	91-57-6	-2-Methylnaphthalene	1	330	ΙU	;
		-Hexachlorocyclopenta		330	i U	ł
		-2,4,6-Trichlorophend		330	ΙU	ţ
		-2,4,5-Trichloropheno		1600	ΙU	;
		-2-Chloronaphthalene		330	١U	1
		-2-Nitroaniline		1600	١U	1
		-Dimethyl Phthalate_		330	١U	;
		-Acenaphthylene		330	l U	!•
		-2,6-Dinitrotoluene_		330	١U	!
		-3-Nitroaniline		1600	١U	ļ
;	83-32-9	-Acenaphthene		330	١U	1
;	,				_	!
•						

FORM I SV-1

SAMPLE NO.

OZFBOZAA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245841

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08209308

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG | 51-28-5----2,4-Dinitrophenol_____ 1600 ΙU | 100-02-7----4-Nitrophenol______ 1600 10 | 132-64-9-----Dibenzofuran 330 IU | 121-14-2----2,4-Dinitrotoluene 330 l U 84-66-2----Diethylphthalate____ 330 10 | 7005-72-3----4-Chlorophenyl-phenylether_ 330 : U : 86-73-7-----Fluorene 330 ļυ 100-10-6-----4-Nitroaniline____ 1600 :U | 534-52-1----4,6-Dinitro-2-Methylphenol__ 1600 ! U | 86-30-6----N-Nitrosodiphenylamine (1) | 330 !U | 101-55-3----4-Bromophenyl-phenylether____ 330 1 U 118-74-1----Hexachlorobenzene____ 330 : U | 87-86-5----Pentachlorophenol____ ! [] 1600 | 85-01-8-----Phenanthrene____ 330 l U | 120-12-7----Anthracene_____ 330 !U :: 86-74-8-----Carbazole_ 330 !U 1 84-74-2-----Di-n-Butylphthalate____ 330 !U | 206-44-0----Fluoranthene_____ 330 111 | 129-00-0-----Pyrene____ 330 10 : 85-68-7----Butylbenzylphthalate_____ 330 111 | 91-94-1-----3,3'-Dichlorobenzidine____ 660 :U : 56-55-3-----Benzo(a)Anthracene_____ 330 :U | 218-01-9-----Chrysene_ 330 : U | 117-81-7-----bis(2-Ethylhexyl)Phthalate___ 10 330 117-84-0----Di-n-Octyl Phthalate____ 330 1 U | 205-99-2----Benzo(b)Fluoranthene____ 330 10 | 207-08-9----Benzo(k)Fluoranthene____ 330 IU | 50-32-8-----Benzo(a)Pyrene__ 330 10 | 193-39-5-----Indeno(1,2,3-cd)Pyrene_____ 330 l U | 53-70-3-----Dibenz(a,h)Anthracene_____ 330 l U | 191-24-2----Benzo(g,h,i)Perylene____ 330 l U (1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02FB02AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245841

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08209308

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

Number TICs found: 0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

SAMPLE NO.

02RB01AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245839

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08209306

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL)

CAS NO. COMPOUND

Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

			~~,			
_			I I		1	
	108-95-2	Phenol bis(2-Chloroethyl)Ether	_1	330	¦ U	
	111-44-4	bis(2-Chloroethyl)Ether	_;	330	l U	
	95-57-8	-2-Chlorophenol	{{1}}	330	١U	
	541-73-1 -	-1,3-Dichlorobenzene	_1	330	ΙU	
	106-46-7	-1,4-Dichlorobenzene	_!	330	١U	
	95-50-1	-1,4-Dichlorobenzene -1,2-Dichlorobenzene	_;	330	١U	
	95–48– <i>7</i> –––––	-2-Methylphenol -2,2'-oxybis(1-Chloropropane)	 	330	١U	
	108-60-1	-2,2'-oxybis(1-Chloropropane)	_	330	ΙU	
	106-44-5	-4-Methylphenol	_;	330	١U	
	621-64-7	-4-Methylphenol -N-Nitroso-Di-n-Propylamine	<u>_</u> ;	330	١U	
	67-72-1 	-Hexachloroethane	1	330	ΙU	
	98-95-3	-Nitrobenzene	1	330	١U	
	78-59-1	Isophorone	i i	330	۱U	
	88-75-5	-2-Nitrophenol	_	330	l U	
	105-67-9	-2,4-Dimethylphenol	_	330	:U	
	111-91-1	-bis(2-Chloroethoxy)Methane	;	330	:U	
	120-83-2	-2,4-Dichlorophenol	_	330	! U	
	120-82-1	-1.2.4-Trichlorobenzene	1	29	¦ J	
	91-20-3	-Naphthalene		330	١U	
	106-47-8	-4-Chloroaniline		330	١U	
i	87-68-3 	-Hexachlorobutadiene		330	ιυ	
	59-50-7	-4-Chloro-3-Methylphenol	!	330	l U	
	91-57-6	-2-Methylnaphthalene	_{	330	١U	
	77-47-4	-Hexachlorocyclopentadiene	{	330	1 U	
	BB-06-2	-2,4,6-Trichlorophenol	-	330	١U	
	95-95-4 -	-2,4,5-Trichlorophenol	!	1600	!U	
	91-58-7	-2-Chloronaphthalene	-	330	: U	
	88-74-4	-2-Nitroaniline	-	1600	l U	
	131-11-3	-Dimethyl Phthalate	-	330	: U	
	208-96-8	-Acenaphthylene	- <u>;</u>	330	10	
	606-20-2	-2,6-Dinitrotoluene	_ ·	330	ŧυ	
	99-09-2	-3-Nitroaniline	_ ;	1600	: U	
	B3-32-9	-Acenaphthene	_ <u>;</u>	330	.U	
	·		-;		!	

FORM I SV-1

02RB01AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245839

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209306

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

CONCENTRATION UNITS:

CAS NO.	COMPOUND (L	ıg/L or	r ug/Kg)	UG/KG	G	Į
			1		1	
51-28-5	2,4-Dinitrophenol		!	1600	ł U	
100-02-7	4-Nitrophenol		;	1600	!U	
132-64-9	Dibenzofuran		<u> </u>	330	١U	
121-14-2	2.4-Dinitrotoluene			330	١U	
84-66-2	Diethylphthalate		†	330	IU	
7005-72-3	4-Chlorophenyl-phenyle	ther_	{	330	IU	
86-73-7	Fluorene		:	330	i U	
100-10-6	4-Nitroaniline		i	1600	١U	
	4,6-Dinitro-2-Methylph			1600	۱U	
86-30-6	N-Nitrosodiphenylamine	(1)	{	330	¦ U	
101-55-3	4-Bromophenyl-phenylet	her		330	١U	
118-74-1	Hexachlorobenzene		!	330	۱U	
87-86-5	Pentachlorophenol		1	1600	١U	
85-01-8	Phenanthrene		¦	330	۱U	
120-12-7	Anthracene		}	330	١U	
86-74-8	Carbazole		}}	330	ŧШ	
84-74-2	Di-n-Butylphthalate		!	330	١U	
206-44-0	Fluoranthene		!	330	ΙU	
129-00-0	Pyrene		¦	81	ΙJ	
85-68-7	Butylbenzylphthalate_		{	330	I U	
91-94-1	3,3'-Dichlorobenzidine	<u> </u>	1	660	١U	
56-55-3	Benzo(a)Anthracene		1	330	ΙU	
218-01-9	Chrysene		;	330	١U	
117-81-7	bis(2-Ethylhexyl)Phtha	late_	i	330	۱U	
117-84-0	Di-n-Octyl Phthalate		<u> </u>	330	ΙU	
205-99-2	Benzo(b)Fluoranthene_			330	١U	
207-08-9	Benzo(k)Fluoranthene		1 1	330	ŀυ	
50-32-8	Benzo(a)Pyrene			330	ΙU	
193-39-5	Indeno(1,2,3-cd)Pyrene)		330	ŧU	
53-70-3	Dibenz(a,h)Anthracene			330	١U	
191-24-2	Benzo(g,h,i)Perylene	······································		330	۱U	
			 ,		į.	

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

2000039 SAMPLE NO.

02RB01AA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245839

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209306

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

CONCENTRATION UNITS: (ua/L or ua/Ka) UG/KG Number TICs found: 0

COMPOUND NAME : RT : EST. CONC. : Q : : CAS NUMBER

FORM I SV-TIC

SAMPLE NO.

O2RBO2AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246039

Sample wt/vol: 30.0 (q/mL) G

Lab File ID: SBP08209310

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

CONCENTRATION UNITS: CAS NO. COMPOUND (wa/L or wa/Ka) UG/KG Q

		COMPOUND	(mā)r or mā	iv wā v	007100		Ŋ
! 10	8-95-2	Phanal	1			1	
	1-44-4	Phenol_ bis(2-Chloroethyl)Et	i		330	: U	
95	-57-0		neri		330	! ()	
1 / 3	1-77-1	2-Chlorophenol	 :		330	! U	
1 10	4-14-7	1.3-Dichlorobenzene	i		330	! U	
	-50-1	1,4-Dichlorobenzene	 !		330	١U	
70	-10-1	1,2-Dichlorobenzene			330	!U	
1 70		2-Methylphenol_ 2,2'-oxybis(1-Chloro	!		330	IU	
1 10	6-60-1 4-44-5	2,2 -0xy01s(1-Unlord	obsus)_;		330	l U	
	1-44-3	4-Methylphenol N-Nitroso-Di-n-Propy			330	IU	
1 04 1 47			ramine		330	!U	
. 0/		Hexachloroethane	<u> </u>		330	I U	
70		Nitrobenzene			330	IU	
70	-J7-1- -	Isophorone			330	ľU	
1 10	-/J-D 5_47_0	2-Nitrophenol			330	U	
1 U	1-0/- 7	2,4-Dimethylphenol_			330	: U	
11	1-71-1	bis(2-Chloroethoxy)M	ethane!		330	١U	
12	∪-83- <i>≥</i>	2,4-Dichlorophenol_			330	! U	
14	U-62-1 -20-7-	1,2,4-Trichlorobenze	ne!		330	١U	
71		Naphthalene	· · · · · · · · · · · · · · · · · · ·		330	١U	
10	6-4/-8	4-Chloroaniline			330	l U	
87	-68-3	Hexachlorobutadiene	!		330	١U	
59.	-50-7	4-Chloro-3-Methylphe	nol:		330	ΙU	
91.	-57-6	2-Methylnaphthalene_	!		330	١U	
//	-4/-4	Hexachlorocyclopenta	diene!		330	ΙU	
88.	-06-2	2,4,6-Trichloropheno	1 :		330	١U	
95.	-95-4	2.4.5-Trichloropheno	1 :		1600	١U	
91.	-58-7	2-Chloronaphthalene_			330	۱U	
88.	-74-4	2-Nitroppiline	1		1600	١U	
13	1-11-3	Dimethyl Phthalate			330	١U	
200	B-96-8 	Acenaphthylene			330	10	
60	6-20-2	Dimethyl Phthalate			330	10	
99	-09-2	3-Nitroaniline	·		1600	10	
83.	-32-9	Acenaphthene	· · · · · · · · · · · · · · · · · · ·		330	! U	
			,		~ ~ ·	;	

SAMPLE NO.

OZRBOZAA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246039

Sample $\omega t/vol$: 30.0 (g/mL) 6

Lab File ID: SBP08209310

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

		!	1	
51-28-5	2,4-Dinitrophenol	_ 1600	¦U	
100-02-7	4-Nitrophenol	1600	۱U	
132-64-9	Dibenzofuran	330	١U	
121-14-2	2.4-Dinitrotoluene	1 330	:U	
84-66-2	Diethylphthalate	330	١U	
7005-72-3	4-Chlorophenvl-phenvlether	: TRA	١U	
86-73-7	Fluorene	330	١U	
100-10-6	4-Nitroaniline	1600	: U	
534-52-1	4,6-Dinitro-2-Methylphenol	1600	١U	
86-30-6	N-Nitrosodiphenylamine (1)	: 330	١U	
101-55-3	4-Bromophenyl-phenylether	; 330	ŧυ	
118-74-1	Hexachlorobenzene	1 330	:U	
87-86-5	Pentachlorophenol	! 1600	: U	
85-01-8	Phenanthrene	্! ব্ৰু <u>০</u>	ΙŪ	
120-12-/	Anthracene	-: 330	ίŪ	
86-/4-8	Carbazole	330	i U	
84-74-2	Di-n-Butvlohthalate	: STO	ΙŪ	
206-44-0	Fluoranthene	: 330	i U	
129-00-0	Pyrene	330	10	
85-68-7	Butvlbenzvlohthalate	: 330	10	
91-94-1	3,3'-Dichlorobenzidine	1 660	: U	
56-55-3	Benzo(a)Anthracene	330	iu	
218-01-9	Chrysene	: 330	: U	
117-81-7	bis(2-Ethvlhexvl)Phthalate		10	
117-84-0	Di-n-Octyl Phthalate	330	l U	
205-99-2	Benzo(b)Fluoranthene	-: 330	10	
207-08-9	Benzo(k)Fluoranthene	330	. U	
50-32-8	Benzo(a)Pyrene	; 330	;U	
193-39-5	Indeno(1,2,3-cd)Pyrene	; 330 ; 330	:U	
 53-70-3 	Dibenz(a,h)Anthracene	_,	10	
191-24-2	Benzo(g,h,i)Perylene	_,	: U	
	penzo, d'antanie à l'alene	-		

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

1 02RB02AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246039

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209310

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(QL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

SAMPLE NO.

OZRBOJAA

Lab Name: PACE INC.

Contract: ELLINGTON

SDG No.: PKG2

Lab Sample ID: H246698

Lab File ID: SBP08239302

Date Received: 08/11/93

Case No.: ELL1

Matrix: (soil/water) SOIL

Sample wt/vol: 30.0 (g/mL) G

Level: (low/med) LOW

% Moisture: decanted: (Y/N) N Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

: 108-95-2----Phenol 330 :U ! 111-44-4----bis(2-Chloroethyl)Ether____: 330 : U : 95-57-8-----2-Chlorophenol____ 330 l U : 541-73-1-----1,3-Dichlorobenzene : 330 Ш | 106-46-7-----1,4-Dichlorobenzene____ 330 : U : 95-50-1-----1,2-Dichlorobenzene____ 330 10 . : 95-48-7----2-Methylphenol__ !U 330 | 108-60-1----2,2'-oxybis(1-Chloropropane) | 330 ΙU : 106-44-5-----4-Methylphenol__ 330 ΙU : 621-64-7----N-Nitroso-Di-n-Propylamine__ 330 : 11 : 67-72-1-----Hexachloroethane____ !U 330 | 98-95-3-----Nitrobenzene____ 330 ŀШ | 78-59-1-----Isophorone_____ 330 :U : 88-75-5----2-Nitrophenol 330 :U 105-67-9----2,4-Dimethylphenol !U 330 : 111-91-1-----bis(2-Chloroethoxy)Methane___: 330 : Ш : 120-83-2----2,4-Dichlorophenol___ 330 l U | 120-82-1----1,2,4-Trichlorobenzene 330 : U ; 91-20-3----Naphthalene_ 111 330 106-47-8----4-Chloroaniline____ 330 l U | 87-68-3----Hexachlorobutadiene 330 10 | 59-50-7----4-Chloro-3-Methylphenol____ 330 111 | 91-57-6----2-Methylnaphthalene____ 330 :U : 77-47-4-----Hexachlorocyclopentadiene____: 330 111 | 88-06-2----2,4,6-Trichlorophenol____ 330 !U 1 95-95-4-----2,4,5-Trichlorophenol 1600 !U : 91-58-7----2-Chloronaphthalene 330 : U : 88-74-4----2-Nitroaniline 1600 :U 131-11-3----Dimethyl Phthalate____ lИ 330 : 208-96-8-----Acenaphthylene_____ 330 :U 1 606-20-2----2,6-Dinitrotoluene 330 : U | 99-09-2----3-Nitroaniline____ 1600 !U ! 83-32-9-----Acenaphthene____ 330 l U

FORM I SV-1

SAMPLE NO.

02RB03AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246698

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08239302

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or			G	Ĵ
1			1		1	— _:
1 51-28-5	2.4-Dinitrophenol_		_!	1600	۱U	1
100-02-7	4-Nitrophenol		1	1600	l U	i
132-64-9	Dibenzofuran		!	330	١U	i
121-14-2	2.4-Dinitrotoluene	3	!	330	: U	;
1 84-66-2	Diethylphthalate_ 4-Chlorophenyl-phe			330	! U	:
1 7005-72-3	4-Chlorophenyl-phe	nylether	!	330	: U	;
1 86-/3-/	Fluorene		<u> </u>	330	: U	ł
: IOO-IO-6	4-Nitroaniline			1600	l U	!
534-52-1	4.6-Dinitro-2-Meth	vlohenol	;	1600	ΙU	ł
1 86-30-6	N-Nitrosodiphenvla	amine (1)	 }	330	ΙU	+
101-55-3	4-Bromophenyl-pher	ylether	[330	ΙU	;
☆ 118-74-1	Hexachlorobenzene		ļ	330	ΙU	ł
87-86-5 -	Pentachlorophenol_		1	1600	ΙU	1
85-01-8	Phenanthrene		1	330	: U	1
120-12-7	Anthracene		1	330	¦ U	{
: 86-74-8 	Carbazole		!	330	ΙU	ŀ
1 84-74-2	Di-n-Butvlohthalat	e	<u> </u>	330	١U	ŀ
1 206-44-0	Fluoranthene		į	330	!U	
129-00-0	Pyrene Butylbenzylphthala		_,	330	١U	1
: 85-68-7	Butylbenzylohthala	te	_	330	ΙŪ	1
1 91-94-1	3,3′-Dichlorobenzi	dine		660	ΙÜ	1
: 56-55-3	Benzo(a)Anthracene	1	!	330	IU	1
218-01-9	Chrysene		i	330	l U	ì
: 11/-81-/	bis(2-Ethvlhexvl)P	'hthalate		330	ΙÜ	1
117-84-0	Di-n-Octyl Phthala	te		330	ΙÜ	
1 205-99-2	Benzo(b)Fluoranthe	ne	-;	330	iŪ	
: 207-08-9	Benzo(k)Fluoranthe	ne	_	330	١U	1
: 50-32-8	Benzo(a)Pyrene		!	330	Ι U	:
193-39-5	Indeno(1,2,3-cd)Py	rene	_;	330	. U	!
1 53-70-3	Dibenz(a,h)Anthrac	ene	-;	330	l U	:
191-24-2	Benzo(g,h,i)Peryle	ne	- ;	330		. !
!			- ;	550		

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

O2RBO3AA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246698

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08239302

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

COMPOUND NAME CAS NUMBER RT | EST. CONC. | Q |

FORM I SV-TIC

SAMPLE NO.

02RB05AA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL Lab Sample ID: H247050

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08239307

Level: (low/med) LOW Date Received: 08/14/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

	· · · · · · · · · · · · · · · · · · ·	- -		,
· · · · · · · · · · · · · · · · · · ·	!			
108-95-2	Phenol; bis(2-Chloroethyl)Ether;	330	ŧυ	
111-44-4	bis(2-Chloroethyl)Ether :	330	ΙU	
95-57-8	2-Chlorophenol !	330	١U	
541-73-1	1,3-Dichlorobenzene	330	ΙU	
106-46-7	1,4-Dichlorobenzene	330	١U	
95-50-1	1,2-Dichlorobenzene	330	ŧυ	
95-48-7	2-Methylphenol	330	ŀυ	
108-60-1	2-Methylphenol 2,2'-oxybis(1-Chloropropane)_!	330	: U	
106-44-5	4-Methylphenol	330	١U	
621-64-7	4-Methylphenol; N-Nitroso-Di-n-Propylamine;	330	١U	
67-72-1	Hexachloroethane	330	١U	
98-95-3	Nitrobenzene	330	١U	
78-59-1	Isophorone ;	330	١U	
88-75-5	2-Nitrophenol! 2,4-Dimethylphenol!	330	: U	
105-67-9	2,4-Dimethylphenol	330	١U	
111-91-1	bis(2-Chloroethoxy)Methane {	330	١U	
120-83-2	2.4-Dichlorophenol	330	١U	
120-82-1	1,2,4-Trichlorobenzene	330	١U	
91-20-3	Naphthalene ;	330	١U	
106-47-8	4-Chloroaniline :	330	. IU	
87-68-3	Hexachlorobutadiene ;	330	١IJ	
59-50-7	4-Chloro-3-Methylphenol :	330	١U	
91-57-6	2-Methylnaphthalene :	330	١U	
77-47-4	Hexachlorocyclopentadiene :	330	; U	
88-06-2	2,4,6-Trichlorophenol	330	١U	
95-95-4	2,4,5-Trichlorophenol	1600	!U	
91-58-7	2-Chloronaphthalene	330	١U	
88-74-4	2-Nitrospiline	1600	١U	
131-11-3	Dimethvl Phthalate	330	١U	
208-96-8	Acenaphthylene	330	ΙŪ	
606-20-2	Dimethyl Phthalate	330	١U	
99-09-2	3-Nitroaniline :	1600	ΙŪ	
83-32-9	Acenaphthene	330	١U	
		-	!	

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02RB05AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247050

Sample wt/vol: 30.0 (g/mL) 6

Lab File ID: SBP08239307

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: decanted: (Y/N) N

Date Extracted: 08/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

(ug/L or ug/Kg) UG/KG Q

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) Y pH: 8.2

CAS NO. COMPOUND

-	· · · · · · · · · · · · · · · · · · ·		1	<u> </u>	
	51-28-5	2,4-Dinitrophenol	1600	١U	
	100-02-7	4-Nitrophenol	1600	۱U	
	132-64-9	Dibenzofuran	: 330	١U	
	121-14-2	2,4-Dinitrotoluene	: 330	١U	
	84-66-2	Diethylphthalate	: 330	:U	
	7005-72-3	4-Chlorophenyl-phenylether	: 330	١U	
	86-73-7	Fluorene	: 330	١U	
	100-10-6	4-Nitroaniline	1600	١U	
	534-52-1	4,6-Dinitro-2-Methylphenol	1600	ŀU	
	86-30-6	N-Nitrosodiphenylamine (1)	330 -	:U	
	101-55-3	4-Bromophenyl-phenylether	330	١U	
	118-74-1	Hexachlorobenzene	330	ΙU	
	87-86-5	Pentachlorophenol	1600	ŧU	
	85-01-8	Phenanthrene	: 330	10	
	120-12-7	Anthracene	: 330	١U	
	86-74-8	Carbazole	330	!U	
	84-74-2	Di-n-Butylphthalate	; 330	: U	
	206-44-0	Fluoranthene	330	: U	
	129-00-0	Pyrene	: 330	١U	
	85-68-7	Butylbenzylphthalate	: 330	ΙU	
	91-94-1	3,3'-Dichlorobenzidine	1 660	ΙU	
	56-55-3	Benzo(a)Anthracene	: 330	١U	
	218-01-9	Chrysene	330	١U	
	117-81-7	Chrysene bis(2-Ethylhexyl)Phthalate	330	:U	
	117-84-0	Di-n-Octyl Phthalate	1 330	١U	
	205-99-2	Benzo(b)Fluoranthene	330	l U	
	207-08-9	Benzo(k)Fluoranthene	330	١U	
	50-32-8	Benzo(a)Pyrene	330	IU	
	193-39-5	Indeno(1,2,3-cd)Pyrene	330	١U	
	53-70-3	Dibenz(a,h)Anthracene	330	١U	
	191-24-2	Benzo(g,h,i)Perylene	330	١U	
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02RB05AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247050

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08239307

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: decanted: (Y/N) N

Date Extracted: 08/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2

CONCENTRATION UNITS: (ua/L or ua/Ka) UG/KG

Number TICs found: 0

FORM I SV-TIC

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

| 02SB16BA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245835

Sample wt/vol: 30.0 (g/mL) 6

Lab File ID: SBP08209302

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 27 decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS: (ua/L or ua/Ka) UG/KG Q

CAS NO.	COMPOUND (u	g/L or ug/Kg)	UG/KG	Œ)
		ļ		1	
108-95-2	Phenol bis(2-Chloroethyl)Ether	<u> </u>	450	١U	
111-44-4	bis(2-Chloroethy1)Ethe	r;	450	! U	
95-57-8	2-Chlorophenol	1	450	: U	
541-73-1	1.3-Dichlorobenzene	i	450	١U	
106-46-7	1,4-Dichlorobenzene	<u> </u>	450	: U	
95-50-1	1.2-Dichlorobenzene	;	450	١U	
95-48-7	2-Methylphenol		450	ΙU	
108-60-1	2,2′-oxybis(1-Chloropro	opane)_;	450	: U	
106-44-5	4-Methylphenol	<u> </u>	450	ΙU	
521-64-7	N-Nitroso-Di-n-Propylam	nine (450	١U	
57-72-1 <i></i> -	Hexachloroethane	<u> </u>	450	ŧШ	
78-95-3	Nitrobenzene	i e	450	١U	
78-59-1	Isophorone		450	١U	
38-75-5 - -	2-Nitrophenol	ŧ	450	ľU	
105-67-9	2,4-Dimethylphenol		450	١U	
111-91-1	bis(2-Chloroethoxy)Meth	nane !	450	:U	
120-83-2	2,4-Dichlorophenol		450	١U	
120-82-1	1,2,4-Trichlorobenzene	}	450	١U	
71-20-3	Naphthalene	1	450	ŧυ	
106-4/-8	4-Chloroaniline	· ·	450	1 U	
37-68-3 -	Hexachlorobutadiene	1	450	١U	
59-50-7 -	4-Chloro-3-Methylphenol	l !	450	: U	
71-57-6	2-Methylnaphthalene	ŧ	450	۱U	
77-47-4	Hexachlorocvclopentadie	ene :	450	١U	
38-06-2 - -	2,4,6-Trichlorophenol	1	450	١U	
75-95-4	2.4.5-Trichlorophenol	i	2200	: U	
71-58-7	2-Chloronaphthalene		450	١U	
38-74-4	2-Nitroaniline		2200	١U	
131-11-3	Dimethyl Phthalate	<u> </u>	450	! U	
208-96-8	Acenaphthylene	<u> </u>	450	iŪ	
506-20-2	2,6-Dinitrotoluene	······································	450	ι υ	
- 79-09-2	3-Nitroaniline	<u> </u>	2200	: U	
33-32-9 -	Acenaphthene		450	יט	
 ·		 '	1 44 44		

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02SB16BA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245835

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08209302

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 27 decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	و
		1		1
51-28-5	2,4-Dinitrophenol_		2200	ΙU
100-02-7	4-Nitrophenol	······································	2200	l U
132-64-9	Dibenzofuran		450	١U
121-14-2	2,4-Dinitrotoluene	;	450	١U
84-66-2	Diethylphthalate	!	450	١U
7005-72-3	4-Chlorophenyl-pher	ylether¦	450	۱۱۱ ۰
86-73-7	Fluorene	<u> </u>	450	ΙU
100-10-6	4-Nitroaniline		2200	: U
	4,6-Dinitro-2-Methy		2200	ŀU
86-30-6	N-Nitrosodiphenylan	nine (1)	450	١U
101-55-3	4-Bromophenyl-pheny	·lether!	450	ΙU
118-74-1	Hexachlorobenzene_	i i	450	l U
87-86-5	Pentachlorophenol	!	2200	! U
85-01-8	Phenanthrene	 	450	: U
120-12-7	Anthracene	t	450	ΙU
86-74-8	Carbazole	<u> </u>	450	١U
84-74-2	Di-n-Butylphthalate	·	450	١U
206-44-0	Fluoranthene		450	ΙU
129-00-0	Pyrene	<u> </u>	73	! J
	Butylbenzylphthalat		450	١U
91-94-1	3,3'-Dichlorobenzio	line ¦	900	ŀU
56-55-3	Benzo(a)Anthracene	[450	١U
218-01-9	Chrysene	į į	450	١U
117-81-7	bis(2-Ethylhexyl)Ph	thalate :	450	¦ U
	Di-n-Octyl Phthalat		450	ΙU
205-99-2	Benzo(b)Fluoranther	ne i	450	ΙU
207-08-9	Benzo(k)Fluoranther	ne !	450	ΙU
50-32-8	Benzo(a)Pyrene	1	450	ΙŪ
193-39-5	Indeno(1,2,3-cd)Pyr	ene	450	I U
53-70-3	Dibenz(a,h)Anthrace	ne !	450	Ιυ
191-24-2	Benzo(g,h,i)Peryler	10	450	: U
	mental change to a state	'	-100	

1F SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB16BA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245835

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209302

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 27 decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| COMPOUND NAME | RT | EST. CONC. | Q CAS NUMBER

1 B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02SB18BA

Lab Sample ID: H246038

Date Received: 08/06/93

Lab Name: PACE INC.

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Sample wt/vol: 30.0 (g/mL) 6 Lab File ID: SBP08209309

Contract: ELLINGTON

Level: (low/med) LOW

% Moisture: 21 decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

CONCENTRATION UNITS: CAS NO. COMPOUND (uo/l or uo/ko) UG/KG

CAS NO.	COMPOUND (ug/L or	ug/Kg) UG/KG	Q
108-95-2	Phenol	1 420	: : U
111-44-4	Phenol bis(2-Chloroethyl)Ether	-	: U
95-57-8	2-Chlorophenol	420	; U
541-73-1	1,3-Dichlorobenzene	420	; U
106-46-7	1,4-Dichlorobenzene	420	; U
95-50-1	1,2-Dichlorobenzene	_	10
95-48-7	2-Methylphenol	420	: U
108-60-1	2,2'-oxybis(1-Chloropropane)		10
106-44-5	4-Methylphenol	420	10
621-64-7	4-Methylphenol N-Nitroso-Di-n-Propylamine	420	10
67-72-1	Hexachloroethane	420	וט
78-75-3	Nitrohenzene	! 420	: 0
/8-59-1		1 400	10
88-75-5	2-Nitrophenol	420	10
105-67-9	2-Nitrophenol	420	וט
111-71-1	bis(2-Chloroethoxv)Methane	420	iŭ
120-83-2	2,4-Dichlorophenol	420	יי
120-82-1	1,2,4-Trichlorobenzene	- 46	IJ
91-20-3	Naphthalene	420	ΙÜ
106-47-8	4-Chloroaniline	1 420	:0
87-68-3	Hexachlorobutadiene	420	: U
59-50-7	4-Chloro-3-Methylphenol	420	10
91-57-6	2-Methylnaphthalene	420	. U
77-47-4	Hexachlorocyclopentadiene	420	i U
88-06-2	2,4,6-Trichlorophenol	420	i U
95-95-4	2,4,5-Trichlorophenol	2000	Ü
91-58-7	2-Chloronaphthalene	1 420	ΙŪ
88-74-4	2-Nitroaniline	2000	: U
131-11-3	Dimethyl Phthalate	420	: U
208-96-8	Acenaphthylene	1 420	10
606-20-2	2.6-Dinitrotoluene	420	I U
99-09-2	3-Nitroaniline	2000	10
83-32-9	Acenaphthene	1 420	: U
		_: 720	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02SB18BA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246038

Sample wt/vol:

30.0 (a/mL) G

Lab File ID: SBP08209309

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor:

GPC Cleanup: (Y/N) Y pH: 6.8

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG a

CAS NO. COMPOUND : 51-28-5----2,4-Dinitrophenol 2000 18 : 100-02-7-----4-Nitrophenol____ 2000 : U | 132-64-9-----Dibenzofuran 420 ! U 1 121-14-2----2,4-Dinitrotoluene____ 420 !U : 84-66-2----Diethylphthalate___ 420 ! U f 7005-72-3----4-Chlorophenyl-phenylether___ 420 111 | 86-73-7-----Fluorene 420 10 | 100-10-6-----4-Nitroaniline____ 2000 10 : 534-52-1----4,6-Dinitro-2-Methylphenol____ 2000 10 ! 86-30-6----N-Nitrosodiphenylamine (1)____ 420 IU 420 1 U : 118-74-1----Hexachlorobenzene 420 10 : 87-86-5----Pentachlorophenol 2000 :U : 85-01-8-----Phenanthrene____ 420 10 | 120-12-7-----Anthracene_____ 420 10 : 86-74-8-----Carbazole 420 :U : 84-74-2-----Di-n-Butylphthalate____ 420 10 : 206-44-0-----Fluoranthene_____ 1 U 420 : 129-00-0-----Pyrene____ 150 ¦ J : 85-68-7-----Butylbenzylphthalate 420 10 | 91-94-1----3,3'-Dichlorobenzidine_____| 840 ŀШ : 56-55-3-----Benzo(a)Anthracene____ 420 :U | 218-01-9-----Chrysene_ 1U 420 117-81-7----bis(2-Ethylhexyl)Phthalate 420 l U : 117-84-0-----Di-n-Octyl Phthalate____ 420 : U : 205-99-2----Benzo(b)Fluoranthene 420 :U : 207-08-9----Benzo(k)Fluoranthene____ 420 ! U | 50-32-8----Benzo(a)Pyrene____ 420 10 193-39-5----Indeno(1,2,3-cd)Pyrene____ :U 420 : 53-70-3-----Dibenz(a,h)Anthracene 420 10 : 191-24-2----Benzo(g,h,i)Perylene____ 420 10

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO. .

02SB18BA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246038

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209309

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

;			ŀ			!		;			1		;
;	CAS	NUMBER	1	COMPOUND	NAME	ì	RT	ŀ	EST.	CONC.	!	Q	1
; =	====	=======	=		========	=	=====	= ; =	=====	======	; =:	====	į
! _			_			_!		<u> </u>	····		.!		. ;

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

025B19AA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246697

Sample wt/vol: 30.0 (g/mL) 6 Lab File ID: SBP08239301

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS: (uo/L or uo/Ko) UG/KG Q

	CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q	
;			;	·	į	
i	108-95-2	Phenol		450	١U	ŀ
i	111-44-4	bis(2-Chloroethyl)E	ther :	450	l U	ł
ļ	95-57-8	2-Chlorophenol	<u> </u>	450	١U	1
i	541-73-1	1.3-Dichlorobenzene	Į.	450	!U	1
1	106-46-7	1,4-Dichlorobenzene		450	١U	ł
į	95-50-1	1.2-Dichlorobenzene	į	450	l U	ł
1	95-48-7	2-Methylphenol	1	450	١U	1
ł	108-60-1	2,2′-oxybis(1-Chlore	opropane)_{	450	l U	;
ļ	106-44-5	4-Methylphenol	:	450	:U	ł
ŀ	621-64-7	N-Nitroso-Di-n-Prop	vlamine !	450	l U	1
1	67-72-1	Hexachloroethane	t	450	١U	}
ľ	98-95-3	Nitrobenzene	;	450	١U	
1	78-59-1	Isophorone	t i	450	١U	2
ł	88-75-5	2-Nitrophenol	<u> </u>	450	:U	1
ţ	105-67-9	2,4-Dimethylphenol_	t	450	ΙU	i i
ŀ	111-91-1	bis(2-Chloroethoxy)	Methane:	450	ΙU	1
1	120-83-2	2,4-Dichlorophenol_		450	١U	ł
ŀ	120-82-1	1,2,4-Trichlorobenze	∍ne¦	450	١U	ł
1	91-20-3	Naphthalene		450	١U	į
ţ	106-47-8	4-Chloroaniline	!	450	l U	:
1	87-68-3	Hexachlorobutadiene	;	450	!U	1
!	59-50-7	4-Chloro-3-Methylph	enol :	450	١U	1
1	91-57-6	2-Methylnaphthalene		450	ΙU	;
i	77-47-4	Hexachlorocyclopent:	adiene ¦	450	IU	!
ľ	88-06-2	2,4,6-Trichloropheno	ol{	450	١U	ł
1	95-95-4	2,4,5-Trichloropheno	o1;	2200	١U	ł
ŧ	91-58-7	2-Chloronaphthalene		450	: U	1
!	88-74-4	2-Nitroaniline		2200	10	ł
1	131-11-3	Dimethyl Phthalate	!	450	10	ł
1	208-96-8	Acenaphthylene	: :	450	IU	þ
	606-20-2	2,6-Dinitrotoluene_	·	450	ΙŪ	ŀ
1	99-09-2	3-Nitroaniline	1	2200	ΙÜ	ŧ
;	83-32-9	Acenaphthene	· · · · · · · · · · · · · · · · · · ·	450	IU	ì
!	·		· · · · · · · · · · · · · · · · · · ·			;

1 C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02SB19AA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246697

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08239301

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

			į	
51-28-5	2,4-Dinitrophenol	2200	١U	
100-02-7	4-Nitrophenol :	2200	١U	
132-64-9	Dibenzofuran	450	١U	
121-14-2	2,4-Dinitrotoluene;	450	! U	
84-66-2	Diethylphthalate	450	١U	!
7005-72-3	4-Chlorophenvl-phenvlether :	450	; U	!
86-73-7	Fluorene	.450	١U	1
100-10-6	4-Nitroaniline :	2200	: U	
534-52-1	4,6-Dinitro-2-Methylphenol	2200	١U	ļ
86-30-6	N-Nitrosodiphenylamine (1)	450	١U	,
101-55-3	4-Bromophenyl-phenylether :	450	١U	;
118-74-1	Hexachlorobenzene:	450	١U	į
87-86-5	Pentachlorophenol :	2200	١U	;
85-01-8	Phenanthrene :	450	: U	ļ
120-12-7	Anthracene;	450	١U	4
86-74-8	Carbazole :	450	١U	1
84-74-2	Di-n-Butylphthalate;	450	١U	;
206-44-0	Fluoranthene :	450	:U	;
129-00-0	Pyrene;	450	١U	;
85-68-7	Butylbenzylphthalate	450	١U	;
91-94-1	3,3'-Dichlorobenzidine ;	900	ŧυ	;
56-55-3	Benzo(a)Anthracene ;	450	١U	;
218-01-9	Chrysene; bis(2-Ethylhexyl)Phthalate;	450	١U	;
117-81-7	bis(2-Ethylhexyl)Phthalate :	450	١U	;
117-84-0	Di-n-Octyl Phthalate!	450	١U	;
205-99-2	Benzo(b)Fluoranthene ;	450	١U	;
207-08-9	Benzo(k)Fluoranthene :	450	١U	!
50-32-8	Benzo(a)Pyrene :	450	!U	ļ
193-39-5	Indena(1,2,3-cd)Pyrene:	450	١U	1
53-70-3	Dibenz(a,h)Anthracene!	450	ŧυ	1
191-24-2	Benzo(g,h,i)Perylene	450	١U	:
			!	;

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB19AA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246697

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08239301

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NUMBER COMPOUND NAME : RT | EST. CONC. | Q | | -----|

FORM I SV-TIC

1 B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

: 02SB19AARE

Lab Name: PACE INC.

Case No.: ELL1

Contract: ELLINGTON

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246697RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08279303

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 27 decanted: (Y/N) N Date Extracted: 08/25/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS:

108-95-2Phenol	CAS NO.	COMPOUND (ug/	/L or ug/Kg) UG/K	G (
111-44-4			1	1
95-57-8				
541-73-11,3-Dichlorobenzene 450 IU 106-46-71,4-Dichlorobenzene 450 IU 95-50-11,2-Dichlorobenzene 450 IU 95-48-72-Methylphenol 450 IU 108-60-12,2'-oxybis(1-Chloropropane) 450 IU 106-44-54-Methylphenol 450 IU 621-64-7N-Nitroso-Di-n-Propylamine 450 IU 67-72-1				
541-73-11,3-Dichlorobenzene 450 IU 106-46-71,4-Dichlorobenzene 450 IU 95-50-11,2-Dichlorobenzene 450 IU 95-48-72-Methylphenol 450 IU 108-60-12,2'-oxybis(1-Chloropropane) 450 IU 106-44-54-Methylphenol 450 IU 621-64-7N-Nitroso-Di-n-Propylamine 450 IU 67-72-1	95-57-8	2-Chlorophenol	\ 45	
95-50-1	541-73-1	1.3-Dichlorobenzene	\ 45	
95-50-1	106-46-7	1,4-Dichlorobenzene	\ 45	0 10
108-60-12, 2'-oxybis(1-Chloropropane) 450 IU 106-44-54-Methylphenol 450 IU 621-64-7Nitroso-Di-n-Propylamine 450 IU 67-72-1Hexachloroethane 450 IU 98-95-3Nitrobenzene 450 IU 78-59-1Isophorone 450 IU 88-75-52, 4-Dimethylphenol 450 IU 105-67-92, 4-Dimethylphenol 450 IU 11-91-1bis(2-Chloroethoxy)Methane 450 IU 120-83-22, 4-Dichlorophenol 450 IU 120-83-22, 4-Dichlorophenol 450 IU 91-20-3	95-50-1	1,2-Dichlorobenzene		0 IU
108-60-12, 2'-oxybis(1-Chloropropane) 450 IU 106-44-54-Methylphenol 450 IU 621-64-7Nitroso-Di-n-Propylamine 450 IU 67-72-1Hexachloroethane 450 IU 98-95-3Nitrobenzene 450 IU 78-59-1Isophorone 450 IU 88-75-52, 4-Dimethylphenol 450 IU 105-67-92, 4-Dimethylphenol 450 IU 11-91-1bis(2-Chloroethoxy)Methane 450 IU 120-83-22, 4-Dichlorophenol 450 IU 120-83-22, 4-Dichlorophenol 450 IU 91-20-3	95-48-7	2-Methylphenol	1 45	0 IU
621-64-7N-Nitroso-Di-n-Propylamine 450 U 67-72-1	108-60-1	2,2′-oxybis(1-Chloroprop	oane)_{ 45	0 10
621-64-7N-Nitroso-Di-n-Propylamine 450 U 67-72-1	106-44-5	4-Methylphenol	\ 45	O U
78-95-3Nitrobenzene 450 U 78-59-1Isophorone 450 U 88-75-52-Nitrophenol 450 U 105-67-92,4-Dimethylphenol 450 U 111-91-1	621-64-7	N-Nitroso-Di-n-Propylam:	ine 45	0 10
78-95-3Nitrobenzene 450 U 78-59-1Isophorone 450 U 88-75-52-Nitrophenol 450 U 105-67-92,4-Dimethylphenol 450 U 111-91-1	67-72-1	Hexachloroethane	(45	្ ម
88-75-52-Nitrophenol 450 U 105-67-92, 4-Dimethylphenol 450 U 111-91-1bis (2-Chloroethoxy)Methane 450 U 120-83-22, 4-Dichlorophenol 450 U 120-82-11, 2, 4-Trichlorobenzene 450 U 91-20-3Naphthalene 450 U 106-47-8	98-95-3	Nitrobenzene	45	0 18
105-67-92,4-Dimethylphenol 450 U 111-91-1bis(2-Chloroethoxy)Methane 450 U 120-83-22,4-Dichlorophenol 450 U 120-82-11,2,4-Trichlorobenzene 450 U 91-20-3Naphthalene 450 U 106-47-84-Chloroaniline 450 U 87-68-3Hexachlorobutadiene 450 U 59-50-74-Chloro-3-Methylphenol 450 U 91-57-6	78-59-1	Isaphorone	1 45	0 IU
105-67-92,4-Dimethylphenol 450 U 111-91-1bis(2-Chloroethoxy)Methane 450 U 120-83-22,4-Dichlorophenol 450 U 120-82-11,2,4-Trichlorobenzene 450 U 91-20-3Naphthalene 450 U 106-47-84-Chloroaniline 450 U 87-68-3Hexachlorobutadiene 450 U 59-50-74-Chloro-3-Methylphenol 450 U 91-57-6	88-75-5	2-Nitrophenol		O IU
120-83-22,4-Dichlorophenol 450 U 120-82-11,2,4-Trichlorobenzene 450 U 91-20-3Naphthalene 450 U 106-47-8	105-67-9	2,4-Dimethylphenol	1 45	0 10
120-82-11,2,4-Trichlorobenzene 450 U 91-20-3Naphthalene 450 U 106-47-8	111-91-1	bis(2-Chloroethoxy)Metha	ane! 45	0 IU
120-82-11,2,4-Trichlorobenzene 450 U 91-20-3Naphthalene 450 U 106-47-8	120-83-2	2,4-Dichlorophenol	\ 45	
91-20-3Naphthalene 450 U 106-47-84-Chloroaniline 450 U 87-68-3Hexachlorobutadiene 450 U 59-50-74-Chloro-3-Methylphenol 450 U 91-57-62-Methylnaphthalene 450 U 77-47-4	120-82-1	1,2,4-Trichlorobenzene_	45	O IU
106-47-84-Chloroaniline 450 U 87-68-3Hexachlorobutadiene 450 U 59-50-74-Chloro-3-Methylphenol 450 U 91-57-62-Methylnaphthalene 450 U 77-47-4	91-20-3	Naphthalene	\ 45	0 IU
87-68-3	106-47-8	4-Chloroaniline	\ 45	0 (U
59-50-74-Chloro-3-Methylphenol 450 U 91-57-62-Methylnaphthalene 450 U 77-47-4	87-68-3	Hexachlorobutadiene	: 45	0 10
77-47-4	59-50-7	4-Chloro-3-Methylphenol	45	O IU
77-47-4	91-57-6	2-Methylnaphthalene	: 45	0 10
95-95-42,4,5-Trichlorophenol 2200 91-58-72-Chloronaphthalene 450 88-74-42-Nitroaniline 2200 131-11-3Dimethyl Phthalate 450 208-96-8	77-47-4	Hexachlorocyclopentadier	ne 45	0 10
95-95-42,4,5-Trichlorophenol 2200 91-58-72-Chloronaphthalene 450 88-74-42-Nitroaniline 2200 131-11-3Dimethyl Phthalate 450 208-96-8	88-06-2	2,4,6-Trichlorophenol	\ 45	0 10
91-58-72-Chloronaphthalene 450 U 88-74-42-Nitroaniline 2200 U 131-11-3Dimethyl Phthalate 450 U 208-96-8Acenaphthylene 450 U 606-20-22,6-Dinitrotoluene 450 U 99-09-23-Nitroaniline 2200 U	95-95-4	2,4,5-Trichlorophenol	; 220	0 10
88-74-42-Nitroaniline 2200 U 131-11-3Dimethyl Phthalate 450 U 208-96-8Acenaphthylene 450 U 606-20-22,6-Dinitrotoluene 450 U 99-09-23-Nitroaniline 2200 U	91-58-7	2-Chloronaphthalene	: 45	0 10
131-11-3Dimethyl Phthalate 450 U 208-96-8Acenaphthylene 450 U 606-20-22,6-Dinitrotoluene 450 U 99-09-23-Nitroaniline 2200 U				0 10
208-96-8Acenaphthylene 450 U 606-20-22,6-Dinitrotoluene 450 U 99-09-23-Nitroaniline 2200 U	131-11-3	Dimethyl Phthalate		0 10
606-20-22,6-Dinitrotoluene 450 U 99-09-23-Nitroaniline 2200 U	208-96-8	Acenaphthylene	<u> </u>	0 10
99-09-2	606-20-2	2.6-Dinitrotoluene	+ 45	0 10
83-32-9	99-09-2	3-Nitroaniline	; 220	0 18
	83-32-9	Acenaphthene	1 45	0 10

1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

025B19AARE

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246697RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08279303

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/25/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

	1		į.	
51-28-5 	2,4-Dinitrophenol	2200	!U	
100-02-7	4-Nitrophenol !	2200	١U	
132-64-9	Dibenzofuran ;	450	١U	
121-14-2	2.4-Dinitrotoluene !	450	١U	
B4-66-2 -	Diethylphthalate	450	۱U	
7005-72-3	4-Chlorophenvl-phenvlether !	450	١U	
B6-73-7	Fluorene	450	١U	
100-10-6	4-Nitroaniline !	2200	١U	
534-52-1	4,6-Dinitro-2-Methylphenol	2200	١U	
86-30-6	N-Nitrosodiphenylamine (1) :	450 -	IU	
101-55-3	4-Bromophenyl-phenylether :	450	:U	
118-74-1	Hexachlorobenzene !	450	١U	
37-86-5	Pentachlorophenol :	2200	١U	
35-01-8	Phenanthrene !	450	١U	
120-12-/	Anthracene :	450	١U	
36-74-8	Carbazole :	450	١U	
34-74-2	Di-n-Butvlohthalate :	450	١U	
206-44-0	Fluoranthene :	450	:U	
129-00-0	Pvrene !	450	ΙU	
35 <i>-</i> 68-7 	Butylbenzylohthalate :	450	ΙŪ	
71-94-1	3,3'-Dichlorobenzidine ;	900	!U	
56-55-3	Benzo(a)Anthracene !	450	ΙU	
218-01-9	Chrysene	450	ΙU	
117-81-7	Chrysene bis(2-Ethylhexyl)Phthalate!	450	¦U	
l 17-84-0	Di-n-Octyl Phthalate !	450	١U	
205-99-2	Benzo(b)Fluoranthene !	450	ΙÜ	
207-08-9	Benzo(k)Fluoranthene ;	450	١U	
50-32-8	Benzo(a)Pvrene :	450	l U	
193-39-5	Indeno(1.2.3-cd)Pyrene !	450	10	
53-70-3	Dibenz(a.h)Anthracene !	450	10	
191-24-2	Benzo(g,h,i)Perylene	450	: U	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: PACE INC.

Contract: ELLINGTON

1 02SB19AARE

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246697RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08279303

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 27 decanted: (Y/N) N Date Extracted: 08/25/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q

FORM I SV-TIC

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02SB20BA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245836

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209303

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 25 decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/	'L or ug/Kg) UG/	KG	Q
	1994 March March Carlot March and Carlot Car	i	;	
108-95-2	Phenol		40 IU	
111-44-4	bis(2-Chloroethyl)Ether	; 4	40 (U	
95-57-8	2-Chlorophenol		40 IU	
541-73-1	1.3-Dichlorobenzene	; 4	40 IU	
106-46-7	1,4-Dichlorobenzene	\	40 IU	
95-50-1	1,2-Dichlorobenzene	\	40 !U	
75-48-7	2-Methylphenol		40 IU	
108-60-1	2,2′-oxybis(1-Chloroprop	ane)_{ 4	40 IU	
106-44-5	4-Methylphenol		40 (U	
621-64-7	N-Nitroso-Di-n-Propvlami	ne : 4	40 IU	
67-72-1 <i></i>	Hexachloroethane	{ 4	40 IU	
78-95-3	Nitrobenzene	1 4	40 IU	
78-59-1	Isophorone	1 4	40 IU	
38-75-5	2-Nitrophenol	1 4	40 ¦U	
105-6/-9	2,4-Dimethylphenol		40 IU	
111-91-1	bis(2-Chloroethoxy)Metha	ine : 4	40 IU	
120-83-2	2,4-Dichlorophenol	. 4	40 ¦U	
120-82-1	1.2.4-Trichlorobenzene	1 4	40 IU	
91-20-3	Naphthalene	4	40 IU	
106-47-8	4-Chloroaniline	1 4	40 IU	
37-68-3 -	Hexachlorobutadiene	; 4	40 IU	
59-50-7 -	4-Chloro-3-Methylphenol	1 4	40 IU	
91-57-6	2-Methylnaphthalene	1 4	40 IU	
77-47-4	Hexachlorocyclopentadien	ie : 4	40 IU	
38-06-2	2,4,6-Trichlorophenol	{ 4	40 IU	
75-95-4	2,4,5-Trichlorophenol	1 21	00 (U	
71-58-7	2-Chloronaphthalene	1 4	40 IU	
38-74-4	2-Nitroaniline	21	00 10	
131-11-3	Dimethyl Phthalate		40 IU	
208-96-8	Acenaphthylene	4	40 IU	
506-20-2	2,6-Dinitrotoluene	4.	40 IU	
79-09-2	3-Nitroaniline	21	00 10	
33-32-9	Acenaphthene	! 4	40 IU	

10 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02SB20BA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245836

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209303

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CONCENTRATION UNITS: (up/L or up/Kp) UG/KG

CAS N	10.	COMPOUND	(nō/r or	սց/Кց)	UG/KG	G	3
-,		0.4.5:-::		<u> </u>	51 00	:	
01-28	;	2,4-Dinitrophenol_		<u>;</u>	2100	:U	
100-0)2-/	4-Nitrophenol		- !	2100	ΙU	
132-6	,4-5	Dibenzofuran		_ !	440	ŧυ	
121-1	4-2	2,4-Dinitrotoluene		i	440	l U	
84-66	,-2	Diethylphthalate		_ <u> </u>	440	ΙU	
7005-	-72-3- 	4-Chlorophenyl-pher	ylether	_!	440	l U	
86-73	5-7	Fluorene		_;	440	ΙU	
100-1	0-6	4-Nitroaniline		_¦	2100	: U	
		4,6-Dinitro-2-Methy			2100	: U	
86-30)-6	N-Nitrosodiphenylam	nine (1)	_;	440	۱ 🖰	
101-5	5-3	4-Bromophenyl-pheny	lether	_	440	١U	
118-7	74-1	Hexachlorobenzene_		_!	440	١U	
87-86	,-5	Pentachlorophenol_		_;	2100	١U	
85-01	_8	Phenanthrene		_:	440	١U	
120-1	2-7	Anthracene		_ {	440	١U	
86-74		Carbazole		i i	440	١U	
84-74	-2	Di-n-Butylphthalate	•	1	440	١U	
206-4	4-0	Fluoranthene		1	440	ΙU	
129-0	0-0	Pvrene		}	440	ΙU	
85-68	}-7	Butvlbenzvlohthalat	e	1	440	ΙU	
91-94	-1	3,3'-Dichlorobenzio	ine		880	ÏΙU	
56-55	i-3	Benzo(a)Anthracene_			440	١U	
218-0	1-9	Chrysene		_;	440	١U	
117-8	31-7	bis(2-Ethylhexyl)Ph	thalate		440	: U	
117-8	34-0	Di-n-Octyl Phthalat	e		440	١U	
205-9	9-2	Benzo(b)Fluoranther	· · · · · · · · · · · · · · · · · · ·	- <u>;</u>	440	ΙŪ	
207-0	8-9	Benzo(k)Fluoranther	· ·	·	440	ΙŪ	
50-32	-8	Benzo(a)Pyrene		-;	440	Ιυ	
193-3	- 0 59-5	Indeno(1,2,3-cd)Pyr	`ADA	- <u>;</u>	440	10	
53-70 53-70	,, 1-3	Dibenz(a,h)Anthrace		- ;	440	10	
191-7	·	Benzo(g,h,i)Peryler		-;	440	10	
T 2 T 7		- Benzold'u'tycerater	· E	- <u>'</u>	770		

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB20BA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245836

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209303

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME : RT | EST. CONC. | D |

1 B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02SB26BA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247049

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08239306

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: 27 decanted: (Y/N) N Date Extracted: 08/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS: CAS NO. COMPOUND (wa/L or wa/Ka) UG/KG Q

CHO NO.	COMPOUND (MÖVE	al advent nevee	υ.	
		1	1 1	
108-95-2	Phenol bis(2-Chloroethyl)Ether	450	١U	
111-44-4	bis(2-Chloroethy1)Ether $_$	450		
95-57-8	2-Chlorophenol	l 450		
541-73-1	1,3-Dichlorobenzene	l 450	١U	
106-46-7	1,4-Dichlorobenzene	\ 450	10	
95-50-1	1,2-Dichlorobenzene	450	IU.	
95-48-7	2-Methylphenol 2,2'-oxybis(1-Chloropropa	\ 450	! U	
108-60-1	2,2′-oxybis(1-Chloropropa	ne)_{ 450	١U	
106-44-5	4-Methylphenol	450	١U	
621-64-7	4-Methylphenol N-Nitroso-Di-n-Propylamin	e 450	ŀυ	
67-72-1	Hexachloroethane	1 450	:U	
98-95-3	Nitrobenzene	1 450	ΙU	
78-59-1	Isophorone	1 450	١U	
88-75-5	2-Nitrophenol	1 450	10	
105-67-9	2,4-Dimethylphenol	1 450	١U	
111-91-1	bis(2-Chloroethoxy)Methan	e : 450	ΙU	
120-83-2	2,4-Dichlorophenol	1 450	١U	
120-82-1	1.2.4-Trichlorobenzene	: 450	l U	
91-20-3	Naphthalene	1 450	١U	
106-4/-8	4-Chloroaniline	; 45Q	١U	
87-68-3	Hexachlorobutadiene	450	١U	
59-50-7	4-Chloro-3-Methylphenol	; 450	ΙU	
91-57-6	2-Methylnaphthalene	+ 450	١U	
77-47-4	Hexachlorocyclopentadiene	450	١U	
88-04-2	2,4,6-Trichlorophenol	450		
95-95-4	2,4,5-Trichlorophenol	2200		
91-58-7	2-Chloronaphthalene	1 450	:U	
88-74-4	2-Nitroaniline	2200		
131-11-3	Dimethyl Phthalate	450		
208-96-8	Acenaphthylene	450		
606-20-2	2,6-Dinitrotoluene	450		
99-09-2	3-Nitroaniline	2200		
83-32-9	Acenaphthene	450	10	
	ncenaphonene		, W	

1 C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET SAMPLE NO.

02SB26BA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247049

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08239306

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	ug/L or	ug/Kg)	UG/KG	C	j
1	And the second s		i		1	<u> </u>
: 51-28-5	2,4-Dinitrophenol		_	2200	١U	1
100-02-7	4-Nitrophenol		!	2200	١U	;
: 132-64-9	Dibenzofuran		1	450	۱U	ł
121-14-2	2.4-Dinitrotoluene		:	450	١U	}
1 84-66-2	Diethylphthalate		_ {	450	۱U	!
: 7005-72-3	4-Chlorophenyl-phenyl	ether		450	ΙU	;
: 86-73-7	Fluorene			450	١U	:
100-10-6	4-Nitroaniline		!	2200	ΙU	!
: 534-52-1	4,6-Dinitro-2-Methylp	henol	-	2200	ŧυ	1
86-30-6	N-Nitrosodiohenvlamin	e (1)	-	450	ΙU	:
101-55-3	4-Bromophenyl-phenyle	ther	!	450	١U	ł
: 118-74-1	Hexachlorobenzene		1	450	ΙU	:
: 87-86-5	Pentachlorophenol		!	2200	١U	:
85-01-8	Phenanthrene		1	450	١U	1
120-12-7	Anthracene		1	450	١U	;
86-74-8	Carbazole		1	450	١Ū	
84-74-2	Di-n-Butylphthalate		}	450	١Ū	1
206-44-0	Fluoranthene		į.	450	!U	+
129-00-0	Pyrene			450	ΙÜ	1
85-68-7	Butylbenzylphthalate_		- !	450	١Ü	į
91-94-1	3,3'-Dichlorobenzidin	6	-;	900	ΙÜ	1
56-55-3	Benzo(a)Anthracene		-,	450	ΙŪ	i
218-01-9	Chrysene		1	450	١Ü	1
117-81-7	bis(2-Ethylhexyl)Phth	alate	-	450	ίŪ	į
117-84-0	Di-n-Octyl Phthalate_		-	450	ΙŪ	1
205-99-2	Benzo(b)Fluoranthene_		- 1	450	Ü	. !
207-08-9	Benzo(k)Fluoranthene_		- · !	450	ΙU	!
50-37-8	Benzo(a)Pyrene	· , , , , , , , , , , , , , , , , ,	_ · !	450	: U	
193-39-5	Indeno(1,2,3-cd)Pyren	9	<u>'</u>	450	; U	1
. 170 07 0 ! 53-70-3	Dibenz(a,h)Anthracene	c	-¦	450	: U	
! 191-24-2	Benzo(g,h,i)Perylene_		-	450 450	10	1 1
. 1/1 24-2 !	-penzovo,n,i/reryiene_		-	400	Ü	i I
(1)	he senarated from Dinberyl	······································	_'		i	i

^{(1) -} Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB26BA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Samole ID: H247049

Sample wt/vol: 30.0 (a/mL) G

Lab File ID: SBP08239306

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: 27 decanted: (Y/N) N Date Extracted: 08/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or uo/Ko) UG/KG

i			}			1	·····	i i			1		;
:	CAS	NUMBER	1	COMPOUND	NAME	i F	२ Т	; E	EST.	CONC.	;	O.	:
; =	====:	========	:	=========	========	!===:	====	; = = :	====	======	: ; :	====	į
; _				····		!		i			-		i

1 F: SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02SB26BARE

Contract: ELLINGTON

Case No.: ELL1

PACE INC.

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247049RE

Sample wt/vol: 30.0 (g/mL) G

Lab Name:

Lab File ID: SBP08279302

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/25/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG COMPOUND CAS NO. : 108-95-2----Phenol 450 ŧυ | 111-44-4-----bis(2-Chloroethy1)Ether____ 450 10 450 ΙU : 95-57-8-----2-Chlorophenol____ 450 10 : 541-73-1-----1,3-Dichlorobenzene_____ | 106-46-7-----1,4-Dichlorobenzene_____ 450 1 U | 95-50-1-----1,2-Dichlorobenzene____ 450 111 ! 95-48-7-----2-Methylphenol____ 450 !U 10 : 108-60-1----2,2'-oxybis(1-Chloropropane)_: 450 : 106-44-5----4-Methylphenol____ 450 :U 450 10 : 621-64-7----N-Nitroso-Di-n-Propylamine | 67-72-1-----Hexachloroethane____ 450 ! U ! 98-95-3----Nitrobenzene_____ 450 :U : 78-59-1-----Isophorone_ 450 10 ! 88-75-5----2-Nitrophenol_ 450 !U 105-67-9----2,4-Dimethylphenol 450 !U 450 IU 120-83-2----2,4-Dichlorophenol 450 1U 1 120-82-1-----1,2,4-Trichlorobenzene 450 10 + 91-20-3-----Naphthalene__ 450 10 1 106-47-8-----4-Chloroaniline 450 1U | 87-68-3-----Hexachlorobutadiene 450 10 : 59-50-7-----4-Chloro-3-Methylphenol____ 450 :U { 91-57-6----2-Methylnaphthalene 450 111 | 77-47-4----Hexachlorocyclopentadiene_____ 450 : U | 88-06-2----2,4,6-Trichlorophenol____ 450 :U ! 95-95-4----2,4,5-Trichlorophenol_____ 2200 1 U 91-58-7----2-Chloronaphthalene 450 : U 2200 10 ! 88-74-4-----2-Nitroaniline____ !U | 131-11-3----Dimethyl Phthalate____ 450 10 : 208-96-8-----Acenaphthylene____ 450 : 606-20-2----2,6-Dinitrotoluene_____ 450 ŀυ ! 99-09-2-----3-Nitroaniline_____ 2200 10 | 83-32-9-----Acenaphthene_____ 450 10

1 C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02SB26BARE

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247049RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08279302

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/25/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND		or ug/Kg) UG/KG	(ם
;				1		1	
ľ	51-28-5	2,4-Dinitrophenol		!	2200	١U	ŀ
1	100-02-7	4-Nitrophenol		!	2200	: U	ŀ
í	132-64-9	Dibenzofuran		<u> </u>	450	¦ U	i
1	121-14-2	2.4-Dinitrotoluene		!	450	١U	ŀ
1	84-66-2	Diethylphthalate		i i	450	ŀU	;
1	- 7005-72-3	4-Chlorophenyl-pheny	/lather	1	450	:U	!
1	86-73-7	Fluorene		 	450	١U	:
i	100-10-0	4-N1 (1.03U111U6		i	2200	1 U	1
į	534-52-1	4,6-Dinitro-2-Methy]	phenol	1	2200	١U	;
ŀ	86-30-6	N-Nitrosodiphenylami	ine (1)	1	450	ΙU	i
1	101-55-3	4-Bromophenyl-phenyl	ether_	{	450	ΙU	!
ť	118-74-1	Hexachlorobenzene		!	450	ΙU	i
1	87-86-5	Pentachlorophenol		•	2200	ŀU	1
ļ	85-01-8	Phenanthrene		!	450	ΙU	1
i	120-12-/	Anthracene			450	:U	;
1	86-74-8	Carbazole Di-n-Butylphthalate_		1	450	١U	!
i	84-74-2	Di-n-Butylphthalate_			450	ŧυ	1
- 1	- 206-44-0	Fluoranthana		į.	450	ΙU	ì
i	129-00-0	Pyrene Butylbenzylphthalate		1	450	١U	;
l	85-68-7	Butylbenzylphthalate	!	;	450	10	;
i	71-74-1	3,3'-Dichlorobenzidi	.ne	i	900	١U	:
;	56-55-3	Benzo(a)Anthracene		ŀ	450	ΙU	;
1	218-01-9	Chrysene		ł	450	ΙU	1
i	117-81-7	bis(2-Ethvlhexvl)Pht	halate	1	450	١U	1
ţ	117-84-0	Di-n-Octyl Phthalate	•	į	450	١U	;
ľ	205-99-2	Benzo(b)Fluoranthene	•	!	450	١U	:
1	207-08-9	Benzo(k)Fluoranthene	,	1	450	ΙU	;
!	50-32-8	Benzo(a)Pyrene		:	450	١Ū	
1	193-39-5	Indeno(1,2,3-cd)Pyre	ne	!	450	١U	1
ŀ	53-70-3	Dibenz(a.h)Anthracen	e	1		iŪ	i
ł	191-24-2	Benzo(g,h,i)Perylene	· · · · · · · · · · · · · · · · · · ·	·	450	ΙÜ	1
!		_, , , , , , , , , , , , , , , , , , ,			• •	}	1
				 · 			

^{(1) -} Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB26BARE

Lab Name: FACE INC.

Contract: ELLINGTON

SDG No.: PKG2 Case No.: ELL1

Matrix: (soil/water) SOIL

Lab Sample ID: H247049RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08279302

Date Received: 08/14/93

Level: (low/med) LOW

% Moisture: 27 decanted: (Y/N) N Date Extracted: 08/25/93

Number TICs found: 0

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q

FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLKSB

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246507

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBB08209302

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/	L or wg/Kg) UG/KG	Ö
		î	1
108-95-2	Phenol	; 330	١U
111-44-4	bis(2-Chloroethyl)Ether_	: 330	! U
95-57-8	2-Chlorophenol		ΙU
541-73-1	1,3-Dichlorobenzene	330	: U
106-46-7	1,4-Dichlorobenzene		١U
95-50-1	1,2-Dichlorobenzene	; 330	: U
95-48-7	2-Methylphenol		l U
108-60-1	2,2′-oxybis(1-Chloroprop	ane)_{ 330	JU
106-44-5	4-Methylphenol	330	١U
621-64-7	N-Nitroso-Di-n-Propylami	ne	: U
67-72-1	Hexachloroethane	330	ΙU
98-95-3	Nitrobenzene	; 330	:U
78-59-1	Isophorone	; 330	١U
88-75-5	2-Nitrophenol	: 330	: U
105-67-9	2,4-Dimethylphenol	330	١U
	bis(2-Chloroethoxy)Metha		١U
	2,4-Dichlorophenol		IШ
120-82-1	1,2,4-Trichlorobenzene	330	iŪ
91-20-3	Naphthalene	330	ΙÜ
106-47-8	4-Chloroaniline	330	iU
87-48-3	Hexachlorobutadiene	330	: U
59-50-7	4-Chloro-3-Methylphenol_	330	: U
Q1-57-4	2-Methylnaphthalene	330	. U
77-47-4	Hexachlorocyclopentadien	e 330	: U
88-04-2	2,4,6-Trichlorophenol	330	.U
05-05-4	2,4,5-Trichlorophenol	1600	: U
	2-Chloronaphthalene		. U
			10
88-/4-4	2-Nitroaniline	1800	
	Dimethyl Phthalate		10
	Acenaphthylene		10
	2,6-Dinitrotoluene		! U
99-09-2	3-Nitroaniline	! 1600	10
83-32-9	Acenaphthene	330	ŀU

1 C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLKSB

Lab Name: FACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246507

Sample wt/vol: 30.0 (q/mL) G

Lab File ID: SBB08209302

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) UG/KG CAS NO.

			_		
_		1		!	
	51-28-5	2,4-Dinitrophenol	1600	Ìυ	
	100-02-7	4-Nitrophenol	1600	ΙÜ	
	132-64-9	Dibenzofuran	330	١U	
	121-14-2	2,4-Dinitrotoluene	330	١U	
	84-66-2	Diethylphthalate	330	١U	
	7005-72-3	4-Chlorophenyl-phenylether;	330	:U	
	86-73-7	Fluorene	330	١U	
	100-10-6	4-Nitroaniline¦	1600	¦ U	
	534-52-1	-4,6-Dinitro-2-Methylphenol!	1600	۱U	
		N-Nitrosodiphenylamine (1)	330	١U	
		4-Bromophenyl-phenylether:	330	: U	
	118-74-1	Hexachlorobenzene	330	ΙU	-
	87-86-5	Pentachlorophenol!	1600	۱U	
	85-01-8	Phenanthrene!	330	١U	
	120-12-7	Anthracene!	330	ΙU	
	86-74-8	Carbazole :	330	١U	
	84-74-2	Di-n-Butylphthalate	330	١IJ	
	206-44-0	Fluoranthene	330	łU	
	129-00-0	Pyrene!	330	! U	
	85-68-7	Butylbenzylphthalate	330	١U	
	91-94-1	3,3'-Dichlorobenzidine	66 0	١U	
	56-55-3	Benzo(a)Anthracene :	330	10	
	218-01-9	Chrysene(330	ΙU	
	117-81-7	bis(2-Ethylhexyl)Phthalate!	330	ΙU	
	117-84-0	Di-n-Octyl Phthalate	330	١U	
	205-99-2	Benzo(b)Fluoranthene	330	ΙU	
		Benzo(k)Fluoranthene	330	ΙU	
		Benzo(a)Pyrene	330	ΙU	
	193-39-5	Indeno(1,2,3-cd)Pyrene:	330	١U	
	53-70-3	Dibenz(a,h)Anthracene	330	ΙU	
		Benzo(g,h,i)Perylene:	330	۱U	
				}	

^{(1) -} Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SBLKSB

Lab Name: PACE INC.

Case No.: ELL1

Contract: ELLINGTON

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246507

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBB08209302

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GFC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. | Q |

FORM I SV-TIC

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLKSC

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H249014

Sample wt/vol: 30.0 (g/mL) 6

Lab File ID: SBB08239301

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 08/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	(ug/L or	. nalka) uton o		Q	
1							— ,
!	108-95-2	Phenol		t !	330	! ! U	i !
	111-44-4	Phenol_ bis(2-Chloroethyl)E	ther		330	10	ı !
į	95-57-8	2-Chlorophenol	···-	<u>'</u>	330	10	
:	541-73-1	2-Chlorophenol_ 1,3-Dichlorobenzene		 :	330	10	:
1	106-46-7	1,4-Dichlorobenzene			330	. U	i
1	95-50-1	1.2-Dichlorobenzene		!	330	ΙÜ	į
ł	95-48-7	2-Methylphenol 2,2′-oxybis(1-Chloro	· · · · · · · · · · · · · · · · · · ·	·	330	10	:
1	108-60-1	2.2'-oxybis(1-Chlore	opropane)	·	330	iŪ	į
i	106-44-5	4-Methylphenol N-Nitroso-Di-n-Prop			330	iU	i
1	621-64-7	N-Nitroso-Di-n-Prop	/lamine		330	i U	
i	6/-/2-1	Hexachloroethane		!	330	ίŪ	i
į	- 78-75-3	Nitrobenzene		!	330	l U	;
- 1	/8-59-1	Isophorone		!	330	:υ	;
į	88-75-5	2-Nitrophenol		!	330	l U	;
;	102-6/-9	2,4-Dimethylphenol_		;	330	ΙU	ł
٠,	111-91-1	bis(2-Chloroethoxv)	1ethane	ļ	330	١U	;
i	120-83-2	2,4-Dichlorophenol_		<u> </u>	330	IU	1
·	120-82-1	1.2.4-Trichlorobenza	an e	!	330	l U	;
ŀ	91-20-3	Naphthalene		1	330	١U	1
;	106-47-8	4-Chloroaniline		- 1	330	IU	;
ł	87-68-3	Hexachlorobutadiene		ł	330	: 🖰	1
ł	59-50-7	4-Chloro-3-Methvlohe	enol	;	330	ŧυ	-
ŀ	91-57-6	2-Methylnaphthalene		;	330	١U	ť
ł	77-47-4	Hexachlorocyclopenta	adiene	1	330	l U	1
1	88-06-2	2,4,6-Trichloropheno	01	_ {	330	!U	;
ł	95-95-4	2.4.5-Trichloropheno	1	}	1600	l U	i i
1	91-58-7	2-Chloronaphthalene		_:	330	١U	1
į	88-74-4	2-Nitroaniline		1	1600	!U	1
! {	131-11-3	Dimethvl Phthalate		;	330	¦ U	Į.
ł	208-96-8	Acenaphthylene		Į.	330	ΙU	}•
ţ	606-20-2	2.6-Dinitrotoluene		!	330	١U	ŧ
1	99-09-2	3-Nitroaniline		!	1600	i U	;
1	83-32-9	Acenaphthene		i	330	١U	;
1				t		_!	!

1 C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLKSC

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H249014

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBB08239301

Level: (low/med) LOW

Date Received:

% Moisture:

decanted: (Y/N) N

Date Extracted: 08/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

	-		
			1
51-28-5	2,4-Dinitrophenol	1600	! U
100-02-7	4-Nitrophenol	1600	!U
132-64-9	Dibenzofuran	330	l U
121-14-2	2,4-Dinitrotoluene		! U
84-66-2	Diethylphthalate	330	١U
7005-72-3	4-Chlorophenyl-phenylether	330	IU
86-73-7	Fluorene	330	I U
100-10-6	4-Nitroaniline;	1600	: U
534-52-1	4,6-Dinitro-2-Methylphenol	1600	: U
86-30-6	N-Nitrosodiphenylamine (1)		۱U
101-55-3	4-Bromophenyl-phenylether!	330	١U
118-74-1	Hexachlorobenzene	330	ł U
87-86-5	Pentachlorophenol!	1600	١U
85-01-8	Phenanthrene	330	: U
120-12-7	Anthracene	330	١U
86-74-8	Carbazole	330	ΙU
84-74-2	Di-n-Butylphthalate!	330	! U
206-44-0	Fluoranthene	330	l U
129-00-0	Pyrene:	330	l U
85-68-7	Butylbenzylphthalate :	330	. IU
91-94-1	3,3'-Dichlorobenzidine	660	l U
56-55-3	Benzo(a)Anthracene	330	١U
218-01-9	Chrysene	330	١U
117-81-7	bis(2-Ethylhexyl)Phthalate :	330	ΙU
117-84-0	Di-n-Octyl Phthalate	330	١U
205-99-2	Benzo(b)Fluoranthene!	330	١U
207-08-9	Benzo(k)Fluoranthene	330	١U
50-32-8	Benzo(a)Pyrene	330	١U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	ΙU
53-70-3	Dibenz(a,h)Anthracene	330	ΙÜ
191-24-2	Benzo(g,h,i)Perylene	330	10

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SBLKSC

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H249014

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBB08239301

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 08/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NUMBER COMPOUND NAME : RT : EST. CONC. : Q

1 B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET SAMPLE NO.

SBLKSI

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247657

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBB08259302

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/25/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	(ug/L or	ug/Kg)	UG/KG	Q	İ
;				1		i	
1	108-95-2	Phenol		_	330	:U	:
i	111-44-4	bis(2-Chloroethy1)Et	:her	_	330	! U	;
ì	95-57-8	2-Chlorophenol		_	330	: U	ŀ
1	541-73-1	1,3-Dichlorobenzene		_{	330	١U	:
į.	106-46-7	1,4-Dichlorobenzene_		_	330	¦ U	ŧ
1	95-50-1	1,2-Dichlorobenzene		_1	330	! 🛭	;
i t	95-48-7	2-Methylphenol		_ }	330	ΙU	1
¦	108-60-1	2.2′-oxybis(1-Chlore	propane)_	_{	330	:U	;
i	106-44-5	4-Methylphenol		_	330	l U	ŀ
1	621-64-7	N-Nitroso-Di-n-Propy	/lamine	1	330	: U	;
ŧ	67-72-1	Hexachloroethane		_	330	! U	i
i	98-95-3	Nitrobenzene		_1	330	ΙU	1
i	78-59-1	Isophorone		_	330	١U	ł
i	88-75-5	2-Nitrophenol		_1	330	! U	;
ţ	105-67-9	2,4-Dimethylphenol		_1	330	l U	ŀ
;		bis(2-Chloroethoxy)			330	l U	ł
1	120-83-2	2,4-Dichlorophenol		_	330	!U	1
1	120-82-1	1,2,4-Trichlorobenze	ne	_	330	l U	;
1	91-20-3	Naphthalene		_	330	١U	1
ŧ	106-47-8	4-Chloroaniline		_1	330	l U	;
1	87-68-3	Hexachlorobutadiene_		_	330	۱ 🗆	;
1	59-50-7	4-Chloro-3-Methylphe	enol	<u></u>	330	¦ U	ł
1	91-57-6	2-Methylnaphthalene_		<u> </u>	330	١U	ł
i	77-47-4	Hexachlorocyclopenta	diene	_	330	l U	1
1	88-06-2	2,4,6-Trichloropheno	1	_	330	١U	‡
ľ	95-95-4	2,4,5-Trichloropheno	1	_	1600	ΙU	1
ŀ		2-Chloronaphthalene_			330	:U	1
!		2-Nitroaniline			1600	l U	1
1	131-11-3	Dimethyl Phthalate_		-	330	١U	1
	208-96-8	Acenaphthylene	- · · · · · · · · · · · · · · · · · · ·	- !	330	١U	Ŧ
1	606-20-2	2,6-Dinitrotoluene_		-	330	١U	1
!	99-09-2	3-Nitroaniline		- !	1600	1 🗓	ł
i	83-32-9	Acenaphthene		-	330	:U	ţ
i	·			-		_	

1 C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLKSI

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247657

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBB08259302

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/25/93

Injection Volume: 2.0(úL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS: (up/L or up/Kp) UG/KG

	CAS NO.	COMPOUND	(ug/L or ug/Kg)		!	Q
l I	,,, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		:		;	;
ţ	51-28-5	2,4-Dinitrophenol_	ŧ	1600	: 🛭	;
ŀ	100-02-7	4-Nitrophenol		1600	: U	}
1	132-64-9	Dibenzofuran	į	330	١U	1
;	121-14-2	2,4-Dinitrotoluene	i	330	١U	!
ì	84-66-2	Diethylphthalate		330	۱U	!
1	7005-72-3	4-Chlorophenvl-nher	vlether !	330	١U	t i
i	86-73-7	Fluorene		330		1
:	100-10-6	4-Nitroaniline	:	1600	i U	:
1	534-52-1	4-Nitroaniline 4,6-Dinitro-2-Methy	/lphenol ;	1600		!
1	86-30-6	N-Nitrosodiohenvlan	nine (1)	330		1
ţ	101-55-3	4-Bromophenyl-pheny	/lether !	330	١U	Į.
ŀ	118-74-1	Hexachlorobenzene	!	330		1
ì	87-86-5	Pentachlorophenol	;	1600		!
•	85-01-8	Phenanthrene	1	330		
ţ	120-12-7	Anthracene	1	330		,
ŀ	86-74-8	Carbazole	·	330		İ
ì	84-74-2	Di-n-Butylphthalate	}	330		1
į	206-44-0	Fluoranthene	<u> </u>	330		Ì
ŧ	129-00-0	Pyrene		330		:
:	85-68-7	Butvlbenzvlohthalat	:e :	330		:
!	91-94-1	3,3'-Dichlorobenzio	line	660		:
i	56-55-3	Benzo(a)Anthracene	!	330		i
I i	218-01-9	Chrysene bis(2-Ethylhexyl)Ph		330		
į	117-81-7	bis(2-Ethvlhexvl)Ph	thalate :	330		;
ŀ	117-84-0	Di-n-Octyl Phthalat	e .	330		•
1	205-99-2	Benzo(b)Fluoranther	ne !	330		:
!	207-08-9	Benzo(k)Fluoranthen	ne !	330	: U	•
1	50-32-8	Benzo(a)Pyrene	!	330	: U	:
i I	193-39-5	Indeno(1,2,3-cd)Pyr	'ene !	330	10	!
!	53-70-3	Dibenz(a,h)Anthrace	ine !	330	10	!.
	191-24-2	Benzo(g,h,i)Perylen	1	330		1.
		wenzo (ganarin enyren	· · · · · · · · · · · · · · · · · · ·	JJU	!U	1
,	i) - Cappot t	ne senarated from Dinber			_'	'

Cannot be separated from Diphenylamine

SAMPLE NO.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SBLKSI

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247657

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBB08259302

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/25/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME : RT ! EST. CONC. | Q

FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

1 B

SAMPLE NO.

SBLKSJ

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H249014RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBB08279301

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 08/25/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

					·
!	100 00 0			!	
ì	108-95-2Phenol		330		i
i	111-44-4bis(2-Chloroethyl)	Ether	330		i
ŀ	95-57-82-Chlorophenol		330		1
!	541-73-11,3-Dichlorobenzer	e	330		ł
ŀ	196-46-/1.4-Dichlorobenzer	· e	330		;
:	95-50-11,2-Dichlorobenzer	le	330		;
i	95-48-72-Methylphenol		330		ł
i	108-60-12,2'-oxybis(1-Chlc	ropropane)_:		١U	1
ì	106-44-54-Methylphenol		330	۱U	;
1	621-64-7N-Nitroso-Di-n-Pro	pylamine			;
t	67-72-1Hexachloroethane_		330	l U	;
!	98-95-3Nitrobenzene		330	l U	†
:	78-59-1Isophorone		330	۱U	ł
!	88-75-52-Nitrophenol 105-67-92,4-Dimethylphenol		330	١U	;
ŀ	105-67-92,4-Dimethylphenol		330	١U	:
•	111-91-1bis(2-Chloroethoxy)Methane :	330	١U	;
i	120-83-22,4-Dichlorophenol		330	ΙU	1
	120-82-11.2.4-Trichloroben	zene :	330	١U	;
ť	91-20-3Naphthalene		330	١U	!
	106-47-84-Chłoroaniline	<u> </u>	330	ΙU	1
•	87-68-3Hexachlorobutadien	e ;	330	١U	:
!	59-50-74-Chloro-3-Methylp	henol :	330	١U	!
!	91-57-62-Methylnaphthalen	e	330	١U	- 1
ŀ	77-47-4Hexachlorocyclopen	tadiene :	330	ŧШ	1
!	88-06-22,4,6-Trichlorophe	nol	330	ΙU	ŀ
!	95-95-42,4,5-Trichlorophe	nol	1600	١U	1
1	91-58-72-Chloronaphthalen	p !	330	١U	
	88-74-42-Nitroaniline		1600	: U	
!	131-11-3Dimethyl Phthalate	!	330	: U	
	208-96-8Acenaphthylene		330 330	1 11	1,
!	606-20-22,6-Dinitrotoluene	·	330 330	; U	1*
	000 20-22,0-Dinitrotoluene	i	1600	10	1
:	99-09-23-Nitroaniline				•
,	83-32-9Acenaphthene	i	330	ļυ	i 1
	East t	i		_' —	'

1 C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET SAMPLE NO.

SBLKSJ

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H249014RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBB08279301

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 08/25/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS: Well as weller HG/KG

	CAS NO.	COMPOUND	(ug/L or			Q	
1				1		ļ	1
ŀ	51-28-5	-2,4-Dinitrophenol			1600	1U	1
!	100-02-7	-4-Nitrophenol		_!	1600	:U	;
ŀ	132-64-9	-Dibenzofuran		_1	330	:U	1
1	121-14-2	-2,4-Dinitrotoluene_		<u>_</u> 1	330	١U	;
į	84-66-2	-Diethylphthalate		_	330	ŀU	i
!	7005-72-3	-4-Chlorophenyl-pheny	/lether	1	330	١U	i
i	86-73-7	-Fluorene		_ {	330	ŀU	:
i	100-10-6	-4-Nitroaniline		!	1600	ΙU	1
;	534-52-1	-4,6-Dinitro-2-Methyl	.phenol	t	1600	١U	1
1	86-30-6	-N-Nitrosodiphenylami	ne (1)		330	!U	1
!	101-55-3	-4-Bromophenyl-phenyl	ether	1	330	١U	- 1
1		-Hexachlor <mark>obenzene</mark>			330	ł U	1
1	87-86-5	-Pentachlorophenol		1	1600	· IU	1
1	85-01-8	-Phenanthrene		_;	330	! U	1
1	120-12-7	-Anthracene			330	١U	ì
1	86-74-8	-Carbazole			330	۱U	- 1
ŀ	84-74-2	-Di-n-Buty <mark>lphthalate</mark> _		_	330	ΙU	ł
1	206-44-0	-Fluoranthene		!	330	ΙU	;
!	129-00-0	-Pyrene			330	١U	ł
;	85-68-7	-Butylbenzylphthalate	1	_	330	۱U	1
i	91-94-1	−3,3′−Dichĺorobenzidi	.ne	_;	660	: U	ł
1	56-55-3	-Benzo(a)Anthracene_		_	330	ΙU	i
1	218-01-9	-Chrysene		<u></u>	330	۱U	;
į	117-81-7	-bis(2-Ethylhexyl)Pht	halate	_ _{	330	¦U	;
		-Di-n-Octyl Phthalate			330	١U	;
		-Benzo(b)Fluoranthene			330	ΙU	;
!	207-08-9	-Benzo(k)Fluoranthene	•		330	١U	}
	50-32-8	-Benzo(a)Pyrene		_	330	:U	1
;	193-39-5	-Indeno(1,2,3-cd)Pyre	ene	_ ¦	330	۱U	;
;		-Dibenz(a,h)Anthracer			330	l U	;
:	191-24-2	-Benzo(g,h,i)Perylene	· - 		330	i U	1
!	a. , a. du l du			-			1
•				·		_ ·	

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SBLKSJ

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H249014RE

Sample wt/vol: 30.0 (g/mL) 6 Lab File ID: SBB08279301

Date Received:

% Moisture:

Level: (low/med) LOW

Injection Volume: 2.0(uL)

decanted: (Y/N) N Date Extracted: 08/25/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

1			1			1		ŀ	·		;		;
ł	CAS	NUMBER	;	COMPOUND	NAME	1	RT	1	EST.	CONC.	1	Q	1
į	=====	========	=======	=======		= = =	=====	; ; = :	=====		: ; =	:====	!
ľ			!			_		.			-		. !

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLKSK

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246507RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBB08279302

Level: (low/med) LOW

Date Received:

% Moisture:

decanted: (Y/N) N

Date Extracted: 08/27/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO. COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

	_		
	- !		<u> </u>
108-95-2	Phenol	330	i U
111-44-4	bis(2-Chloroethy1)Ether	330	10
95-57-8	2-Chlorophenol	330	1 U
541 <i>-7</i> 3-1 <i></i> -	1,3-Dichlorobenzene	330	۱U
106-46-7	1,4-Dichlorobenzene	330	١U
95-50-1	1,2-Dichlorobenzene	330	; U
95-48-7	2-Methylphenol;	330	١IJ
108-60-1	2,2'-oxybis(1-Chloropropane)_{	330	: U
106-44-5	4-Methylphenol	330	ΙU
621-64-7	4-Methylphenol;N-Nitroso-Di-n-Propylamine;	330	I U
67-72-1	Hexachloroethane ;	330	: U
98-95-3	Nitrobenzene	330	:U
78-59-1	Isophorone	330	!U
B8-75-5	2-Nitrophenol :	330	l U
102-6/-4	2,4-Dimethylphenol	٥٥٥	١U
111-91-1	bis(2-Chloroethoxy)Methane	330	! U
120-83-2	2,4-Dichlorophenol	330	١U
120-82-1	1,2,4-Trichlorobenzene	330	:U
91-20-3	Naphthalene	330	١U
106-47-8	4-Chloroaniline :	330 .	. : U
87-68-3 	Hexachlorobutadiene :	330	ΙU
59-50-7	4-Chloro-3-Methylphenol :	330	١U
71-57-6	2-Methylnaphthalene :	330	. IU
77-47-4	Hexachlorocyclopentadiene :	330	١U
38-06-2	2,4,6-Trichlorophenol	330	۱U
75-95-4	2,4,5-Trichlorophenol	1600	١U
71-58-7	2-Chloronaphthalene	330	١U
38-74-4	2-Nitroaniline	1600	١U
131-11-3	Dimethyl Phthalate!	330	ΙU
208-96-8	Acenaphthylene	330	iū
606-20-2	2,6-Dinitrotoluene	330	ΙÜ
	3-Nitroaniline	1600	i U
99-09-2	3-Nitroaniline ;	1000	, U

1 C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET SAMPLE NO.

SBLKSK

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246507RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBB08279302

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 08/27/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

			COMCEMENT	TITON O	41101		
	CAS NO.	COMPOUND	(ug/L or	ug/Kg)	UG/KG		Q
1			17	1		ŀ	
!	51-28-5	2,4-Dinitrophenol		_	1600	: U	
1	100-02-7	4-Nitrophenol		1	1600	١U	
:	132-64-9	Dibenzofuran		_	330	ΙU	
ŀ	121-14-2	2,4-Dinitrotoluene_			330	l U	
;	84-66-2	Diethylphthalate		i	330	١U	
ľ	7005-72-3	4-Chlorophenyl-pheny	ylether	_	330	ΙU	
ŀ	86-73-7	Fluorene	-		330	١U	
1	100-10-6	4-Nitroaniline		_i	1600	ΙU	
!	534-52-1	4,6-Dinitro-2-Methy	lphenol	!	1600	١U	
ļ	86-30-6	N-Nitrosodiphenylam	ine (1)	_ !	330 -	١U	!
!		4-Bromophenyl-pheny			330	١U	1
i	118-74-1	Hexachlorobenzene		-	330	١U	
	87-86-5	Pentachlorophenol		-	1600	ΙU	}
!	85-01-8	Phenanthrene		-	330	١U	1
!	120-12-7	Anthracene		_ ;	330	l U	1
•	86-74-8	Carbazole		- 1	330	١U	
1	84-74-2	Carbazole Di-n-Butylphthalate		_;	330	ΙU	;
:	206-44-0	Fluoranthene			330	ΙU	:
:	129-00-0	Pyrene		-	330	ΙU	į
:	85-68-7	Butylbenzylphthalate	2	-	330	ΙU	
!	91-94-1	3,3'-Dichlorobenzid	ine	_	660	١U	}
i	56-55-3	Benzo(a)Anthracene_		· 	330	١U	
:	218-01-9	Chrysene		_ ;	330	١U	
		bis(2-Ethylhexyl)Ph		_	330	ΙU	
1	117-84-0	Di-n-Octyl Phthalate	e	_	330	١U	
!	205-99-2	Benzo(b)Fluoranthen	e	_ ;	330	١U	
		Benzo(k)Fluoranthen			330	١U	
		Benzo(a)Pyrene			330	l U	
;	193-39-5	Indeno(1,2,3-cd)Pyr	ene	_ <u>;</u>	330	ΙŪ	
!	53-70-3	Dibenz(a,h)Anthrace		<u>'</u>	330	: U	
!	191-74-7	Benzo(g,h,i)Perylen		-:	330	: U	
1	1/1 47 4	Delizordini 1/1 el y 1elli		<u>'</u>	000	!	
1				_'		_'	

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SBLKSK

Lab Name: PACE INC.

Contract: ELLINGTON

SDG No.: PKG2 Case No.: ELL1

Matrix: (soil/water) SOIL

Lab Sample ID: H246507RE.

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBB08279302

Date Received:

Level: (low/med) LOW

% Moisture: decanted: (Y/N) N

Date Extracted: 08/27/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(aL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

FORM I SV-TIC

1 B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET SAMPLE NO.

02SB20BAMS

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245837MS

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08209304

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 26 decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CONCENTRATION UNITS:

	CAS NO.	COMPOUND (ug/L or	· ug/Kg) UG/K(3	Q
!			1	1	
:	108-95-2		! 450	o tu	1
į	111-44-4	bis(2-Chloroethyl)Ether	; 450	UI C	1
1	95-57-8	2-Chlorophenol		טו כ	1
;	541-73-1	1,3-Dichlorobenzene	450	U C	1
į	106-46-7	1,4-Dichlorobenzene		O IU	1 1
1	95-50-1	1,2-Dichlorobenzene	1 450	D IU	. :
1	95-48-7	2-Methylphenol	\ 450	0 10	;
i	108-60-1	2,2'-oxybis(1-Chloropropane)	450) U	;
i	106-44-5	4-Methylphenol	{ 450	טו כ	+
i	621-64-7	N-Nitroso-Di-n-Propylamine	1 450	0 10	;
ł	67-72-1	Hexachloroethane	: 450	0 (0	1
f	98-95-3	Nitrobenzene	45 0	O IU	}
į	78-59-1	Isophorone	1 450	0 10	1
Į	88-75-5	2-Nitrophenol	: 450	UI C	1
ļ Į	105-67-9	2,4-Dimethylphenol	\ 450) U	1
!	111-91-1	bis(2-Chloroethoxy)Methane	450	0 (0	;
ļ	120-83-2	2,4-Dichlorophenol 1,2,4-Trichlorobenzene	_ \ 450) IU	1
!	120-82-1	1,2,4-Trichlorobenzene	: 450) (0	;
í	91-20-3	Naphthalene	450) (U	1
ţ	106-47-8	Naphthalene 4-Chloroaniline	: 450) IU	1
į	87-68-3	Hexachlorobutadiene 4-Chloro-3-Methylphenol) (U	:
ł	59-50-7	4-Chloro-3-Methylphenol	: 450	UI C	}
i i	91-57-6	2-Methylnaphthalene	{ 450) (ប	1
1	77-47-4	Hexachlorocyclopentadiene	! 450) ¦U	1
ţ	88-06-2	2,4,6-Trichlorophenol	! 450) U	i
ŧ	95-95-4	2,4,5-Trichlorophenol	_: 2200) IU	:
1	91-58-7	2-Chloronaphthalene	{ 450) (U	ł
		2-Nitroaniline) iu	ł
1	131-11-3	Dimethyl Phthalate	: 450	18	ļ
į	208-96-8	Acenaphthylene	: 450) (U	Ļ
t t	606-20-2	2,6-Dinitrotoluene	1 450) iu	+
1	99-09-2	3-Nitroaniline	_; 2200) (U	; (
i	83-32-9	Acenaphthene	 {: 450) (U	1
ļ			_ _!	!	!

10 SEMIVULATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02SB20BAMS

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Samole ID: H245837MS

Sample wt/vol: 30.0 (g/mL) 6 Lab File ID: SBP08209304

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 26 decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or	ug/Kg) UG/KG	G)
· · · · · · · · · · · · · · · · · · ·		:	1	-
51-28-5	2,4-Dinitrophenol	_ 2200	١U	
100-02-7	4-Nitrophenol	_: 2200	١U	
132-64-9	Dibenzofuran	_: 450	: U	
121-14-2	2,4-Dinitrotoluene	_; 450	١U	
84-66-2	Diethylphthalate	_: 450	١U	
7005-72-3	4-Chlorophenvl-ohenvlether	1 450	١U	
86-73-7	Fluorene	_ 450	١U	
100-10-6	4-Nitroaniline	_¦ 2200	ΙU	
	4,6-Dinitro-2-Methylphenol		١U	
86-30-6	N-Nitrosodiphenylamine (1)	_; 450	: U	
101-55-3	4-Bromophenyl-phenylether	_: 450	١U	
118-74-1	Hexachlorobenzene	_1 450	١U	
87-86-5	Pentachlorophenol	_l 2200	l U	
85-01-8	Phenanthrene	_¦ 450	: U	
120-12-7	Anthracene	1 450	١U	
86-74-8	Carbazole	1 450	l U	
84-74-2	Di-n-Butylphthalate	_ 450	١U	
206-44-0	Fluoranthene	450	l U	
129-00-0	Pyrene	_; 450	: U	
85-68-7	Butylbenzylphthalate	450	1 U	
91-94-1	3,3'-Dichlorobenzidine	1 890	١U	
56-55-3	Benzo(a)Anthracene	: 450	١U	
218-01-9	Chrysene	450	١U	
117-81-7	Chrysene bis(2-Ethylhexyl)Phthalate	_ _¦ 450	ΙU	
117-84-0	Di-n-Octyl Phthalate	ł 450	١U	
205-99-2	Benzo(b)Fluoranthene	450	١U	
207-08-9	Benzo(k)Fluoranthene	1 450	١U	
50-32-8	Benzo(a)Pyrene	450	١U	
193-39-5	Indeno(1,2,3-cd)Pyrene	450	١U	
53-70-3	Dibenz(a,h)Anthracene	450	١Ū	
191-24-2	Benzo(g,h,i)Perylene	450	i U	
			, —	

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET SAMPLE NO.

- 02SB20BAMSD

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL Lab Sample ID: H245838MSD

Sample wt/vol: 30.0 (g/mL) 6 Lab File ID: SBP08209305

Level: (low/med) LOW Date Received: 08/05/93

% Moisture: 27 decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CONCENTRATION UNITS:

	CAS NO.	COMPOUND (ug/L or	r ug/Kg)	UG/KG	Q	
			}			- 1
	108-95-2	Phenol bis(2-Chloroethyl)Ether		450	١U	ì
	111-44-4	bis(2-Chloroethyl)Ether	!	450	١U	ţ
	95-57-8	2-Chlorophenol	!	450	۱U	i
	541-/3-1	l.3-Vichlorobenzene	i	450	: U	;
	106-46-7	1.4-Dichlorobenzene	;	450	¦ U	- 1
	95-50-1	1.2-Dichlorobenzene	!	450	ľU	1
!	95-48-7	2-Methylphenol 2,2'-oxybis(1-Chloropropane)	!	450	ΙU	1
	108-60-1	2,2'-oxybis(1-Chloropropane)	-1	450	ŧυ	i
	106-44-5	4-Methylphenol		450	١U	1
	621-64-7	4-Methylphenol	<u> </u>	450	ΙU	}
	67-72-1	Hexachloroethane	1	450	:U	;
	98-95-3	Nitrobenzene		450	: U	ŗ
	78-59-1	Isophorone	:	450	l U	;
	88-75-5	2-Nitrophenol	}	450	ΙU	1
	105-67-9	2,4-Dimethylphenol	!	450	! U	1
	111-91-1	bis(2-Chloroethoxy)Methane	ł	450	l U	1
	120-83-2	2,4-Dichlorophenol	1	450	ŀU	1
	120-82-1	1.2.4-Trichlorobenzene	į	450	ΙU	!
	91-20-3	Naphthalene	!	450	١U	}
	106-4/-8	4-Unioroaniline	ì	450	ΙU	1
	87-68-3	Hexachlorobutadiene	1	450	ΙU	;
	59-50-7	4-Chloro-3-Methylphenol	:	450	١U	ŀ
	91-57-6	2-Methylnaphthalene	;	450	ΙU	}
	77-47-4	Hexachlorocyclopentadiene	;	450	ΙU	-
	88-06-2	2,4,6-Trichlorophenol		450	۱U	t I
	95-95-4	2,4,5-Trichlorophenol		2200	lЦ	1
	91-58-7	2-Chloronaphthalene		450	ΙU	:
	88-74-4	2-Nitroaniline		2200	:U	!
	131-11-3	Dimethyl Phthalate	·	450	ΙU	1
	208-96-8	Acenaphthylene		450	ΙU	; •
	606-20-2	2,6-Dinitrotoluene	- ;	450	10	:
	99-09-2	3-Nitroaniline	 ;	2200	10	:
	83-32-9	Acenaphthene	' !	450	10	:
	,	1 run = 1 run VII VI	·	1.001.00	;	:
					_ ·	 '

10 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02SB20BAMSD

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245838MSD

Sample wt/vol: 30.0 (g/mL) 6

Lab File ID: SBP08209305

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 27 decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

, .			<u>'</u>	
!	51-28-52,4-Dinitrophenol	2200	IU	i
ı t	100-02-74-Nitrophenol	2200	i U	į
1	132-64-9Dibenzofuran	450	i U	1
i	121-14-22,4-Dinitrotoluene	450	10	i
i i	84-66-2Diethylphthalate	450	iu	,
;	7005-72-34-Chlorophenyl-phenylether		. U	
!	86-73-7Fluorene	450	ΙÜ	
!	100-10-64-Nitroaniline	2200	10	i
:	534-52-14,6-Dinitro-2-Methylphenol	2200	ΙŪ	}
	86-30-6N-Nitrosodiphenylamine (1)		ΙU	1
	101-55-34-Bromophenyl-phenylether		ΙÜ	1
	118-74-1Hexachlorobenzene		ΙU	;
:	87-86-5Pentachlorophenol	2200	: U	;
:	85-01-8Phenanthrene	450	: U	!
!	120-12-7Anthracene	450	١U	1
	86-74-8Carbazole	450	١U	!
•	84-74-2Di-n-Butylphthalate	450	١U	1
!	206-44-0Fluoranthene	450	١U	1
!	129-00-0Pyrene	450	١U	;
1	85-68-7Butylbenzylphthalate	450	۱U	;
ŀ	91-94-13,3'-Dichlorobenzidine	900	١U	ŧ
	56-55-3Benzo(a)Anthracene		14	1
!	218-01-9Chrysene	450	١U	ł
	117-81-7bis(2-Ethylhexyl)Phthalate	450	14	;
	117-84-0Di-n-Octyl Phthalate		١U	1
!	205-99-2Benzo(b)Fluoranthene	450	:U	;
	207-08-9Benzo(k)Fluoranthene		ΙU	! 1
:	50-32-8Benzo(a)Pyrene	450	ΙU	1
i	193-39-5Indeno(1,2,3-cd)Pyrene	450	١U	1
	53-70-3Dibenz(a,h)Anthracene		١U	1*
:	191-24-2Benzo(g,h,i)Perylene		ΙU	1
!			1	1

^{(1) -} Cannot be separated from Diphenylamine

1 B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET SAMPLE NO.

LCS

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246506

Sample wt/vol: 30.0 (g/mi) G

Lab File ID: SBP08209301

Level: (low/med) LOW

Date Received: 08/09/93

% Moisture:

decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	(ug/L or ug/Kg)		Q	
ł			!		ŀ	-;
ł	108-95-2	Phenol_ bis(2-Chloroethyl)E	i	330	; U	ł
1	111-44-4	bis(2-Chloroethyl)E	ther!	330	ΙU	;
1	95-57-8	2-Chlorophenol		330	l U	ŀ
í	541-73-1	2-Chlorophenol 1,3-Dichlorobenzene	<u> </u>	330	١U	i
1	106-46-7	1,4-Dichlorobenzene		330	l U	ł
	95-50-1	1,2-Dichlorobenzene	;	330	; U	1
1	95-48-7	2-Methylphenol 2,2′-oxybis(1-Chlor		330	!U	i
1	108-60-1	2,2′-oxybis(1-Chlor	opropane)_¦	330	l U	ŀ
- [106-44-5	4-Methylphenol	{	330	١U	ł
ŀ	621-64-7	N-Nitroso-Di-n-Prop	ylamine	330	ł U	ŀ
1	67-72-1	Hexachloroethane	[330	! U	;
1	98-95-3	Nitrobenzene		330	١U	ŀ
l i	78-59-1	Isophorone	I	330	١U	1
1	88-75-5	2-Nitrophenol 2,4-Dimethylphenol_	I	330	¦U	ł
1	105-67-9	2,4-Dimethylphenol_		330	! U	;
1	111-91-1	bis(2-Chloroethoxy)	Methane¦	330	١U	1
1		2,4-Dichlorophenol_		330	١U	i
ł	120-82-1	1,2,4-Trichlorobenz	enel	330	l U	ł
1	91-20-3	Naphthalene		330	١U	1
!	106-47-8	4-Chloroaniline	I	330	¦ U	1
1	87-68-3	Hexachlorobutadiene		330	١U	!
:	59-50-7	4-Chloro-3-Methylph	enol !	330	١U	i
		2-Methylnaphthalene		330	١U	;
		Hexachlorocyclopent		330	:U	i 1
1	88-06-2	2,4,6-Trichĺorophen	01 !	330	۱U	;
;	95-95-4	2,4,5-Trichlorophen	01 ;	1600	:U	i i
i	91-58-7	2-Chloronaphthalene	1	330	:U	1
1	88-74-4	2-Nitroaniline	l l	1600	¦U	ł
:	131-11-3	Dimethyl Phthalate_	1	330	١U	- 1
•		Acenaphthylene		330	l U	1
;	606-20-2	2,6-Dinitrotoluene_	1	330	۱u	- 1
,	99-09-2	3-Nitroaniline		1600	l U	{
!	83-32-9	Acenaphthene	· · · · · · · · · · · · · · · · · · ·	330	١Ü	1
					1	1
1		-,				

10 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET SAMPLE NO.

LCS

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246506

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209301

Level: (low/med) LOW

Date Received: 08/09/93

% Moisture:

decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG : 51-28-5-----2,4-Dinitrophenol____ 1600 111 ! 100-02-7----4-Nitrophenol____ 1600 : U | 132-64-9-----Dibenzofuran 330 l U : 121-14-2----2,4-Dinitrotoluene____ 330 10 : 84-66-2----Diethylphthalate____ :U 330 : 7005-72-3----4-Chlorophenyl-phenylether____; 330 10 | 86-73-7-----Fluorene_____ | 100-10-6-----4-Nitroaniline____ 330 : U 1600 10 : 534-52-1----4,6-Dinitro-2-Methylphenol___; 1600 10 330 : U : 101-55-3----4-Bromophenyl-phenylether : 330 !U i 118-74-1----Hexachlorobenzene____ 330 : U : 87-86-5----Pentachlorophenol____ 1600 111 : 85-01-8----Phenanthrene____ 330 !U 120-12-7-----Anthracene_____ 1 86-74-8------Carbazole_____ 330 :U 330 !U : 84-74-2----Di-n-Butylphthalate 330 !U : 206-44-0-----Fluoranthene_____ 330 ! U | 129-00-0-----Pyrene____ 330 :U : 85-68-7----Butylbenzylphthalate_____ 330 10 ! 91-94-1----3,3'-Dichlorobenzidine____ 660 ١U : 56-55-3-----Benzo(a)Anthracené_____ 330 10 | 218-01-9-----Chrysene____ 330 l U : 117-81-7-----bis(2-Ethylhexyl)Phthalate____; 330 10 | 117-84-0----Di-n-Octyl Phthalate_____ 330 !U 205-99-2----Benzo(b)Fluoranthene____ 330 10 : 207-08-9----Benzo(k)Fluoranthene____ 330 !U 330 l U : 50-32-8-----Benzo(a)Pyrene_____ : 193-39-5-----Indeno(1,2,3-cd)Pyrene_____ 330 : [] | 53-70-3-----Dibenz(a,h)Anthracene____ 330 :U 330 ١U : 191-24-2----Benzo(g,h,i)Perylene_____

(1) - Cannot be separated from Diphenylamine